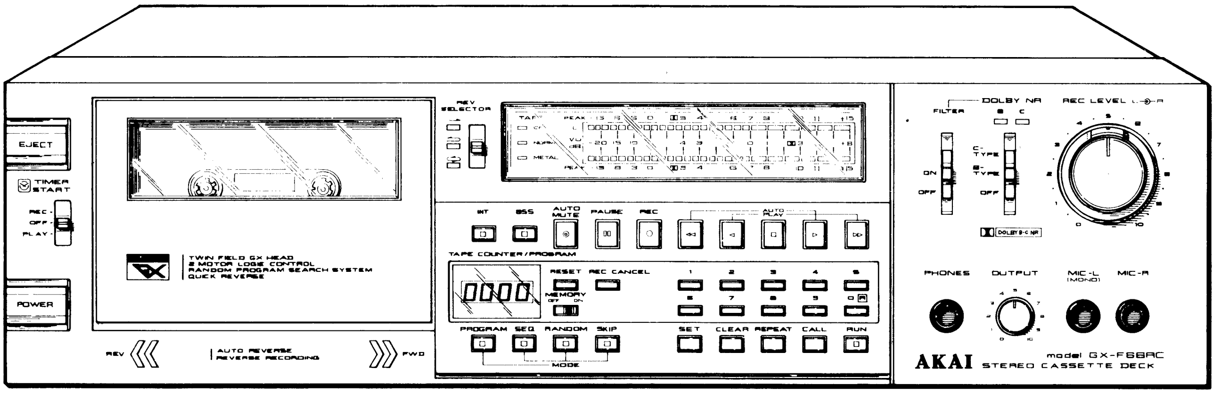
AKAI SERVICE MANUAL


EJECT
TIMER START
REC
OFF
PLAY
POWER
TWIN FIELD GX HEAD
2 MOTOR LOGIC CONTROL
RANDOM PROGRAM SEARCH SYSTEM
QUICK REVERSE
REV
AUTO REVERSE
REVERSE RECORDING
FWD
REV SELECTOR
INT
BSS
AUTO MUTE
PAUSE
REC
AUTO PLAY
TAPE COUNTER/PROGRAM
0000
RESET
REC CANCEL
MEMORY
OFF ON
PROGRAM
SEQ
RANDOM
SKIP
MODE
SET
CLEAR
REPEAT
CALL
RUN
DOLBY NR
FILTER
REC LEVEL L-R
C-TYPE
B-TYPE
ON
OFF
PHONES
OUTPUT
MIC-L (MONO)
MIC-R
AKAI
model GX-F66RC
STEREO CASSETTE DECK

STEREO CASSETTE DECK

MODEL GX-F66RC

STEREO CASSETTE DECK

MODEL GX-F66RC

THIS MANUAL IS APPLICABLE TO BOTH SILVER AND PEARL SHADOW PANEL MODELS

SECTION 1 SERVICE MANUAL 3
SECTION 2 PARTS LIST 19
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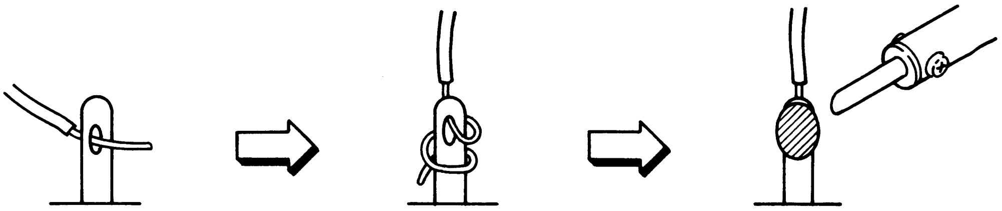
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{C}$ or $\boxed{A}$, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL

I . SPECIFICATIONS

TRACK SYSTEM	4 Track 2 Channel Stereo System
TAPE	Philips Type Cassette
TAPE SPEED	4.76 cm/s ±1.5% (1-7/8 ips. ±1.5%)
HEADS	Twin Field Super GX head for recording/playback x 1 Erase head x 2
MOTORS	Electronically speed controlled D.C. motor for capstan drive x 1 D.C. motor for reel drive x 1
WOW & FLUTTER	Less than 0.035% WRMS, 0.11% (DIN 45 500)
TAPE WINDING TIME	80 sec. using a C-60 cassette tape
FREQUENCY RESPONSE	Normal: 25 to 16,000 Hz±3 dB (–20 VU). CrO_2: 25 to 17,000 Hz±3 dB (–20 VU). 25 to 9,000 Hz±3 dB (0 VU). Metal: 25 to 19,000 Hz±3 dB (–20 VU). 25 to 13,000 Hz±3 dB (0 VU).
SIGNAL TO NOISE RATIO	Normal: Better than 58 dB CrO_2: Better than 60 dB Metal: Better than 60 dB (measured via tape with peak recording level) Dolby B-type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz Dolby C-type NR switch ON: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz
HARMONIC DISTORTION	Normal: Less than 0.8% CrO_2: Less than 0.7% Metal: Less than 0.7%
INPUT	MIC: 0.25 mV (input impedance 5.0 kohms) Required microphone impedance: 600 ohms Line: 70 mV (input impedance 47 kohms)
OUTPUT	Line: 410 mV at 0 VU Required load impedance: more than 20 kohms Phone: 1.3 mW/8 ohms at 0 VU
DIN	Input: 2.0 mV (input impedance 10 kohms) Output: 410 mV Required load impedance: more than 20 kohms
POWER CONSUMPTION	36 W
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/120V/220V/240V, 50/60 Hz switchable for other countries.
DIMENSIONS	440(W) x 118(H) x 309(D) mm (17.3 x 4.6 x 12.2 inches)
WEIGHT	8.6 kg (19.0 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

* "Dolby" and the Double D symbol are trademarks of Dolby Laboratories.
(Manufactured under license from Dolby Laboratories)

II. CONTROLS

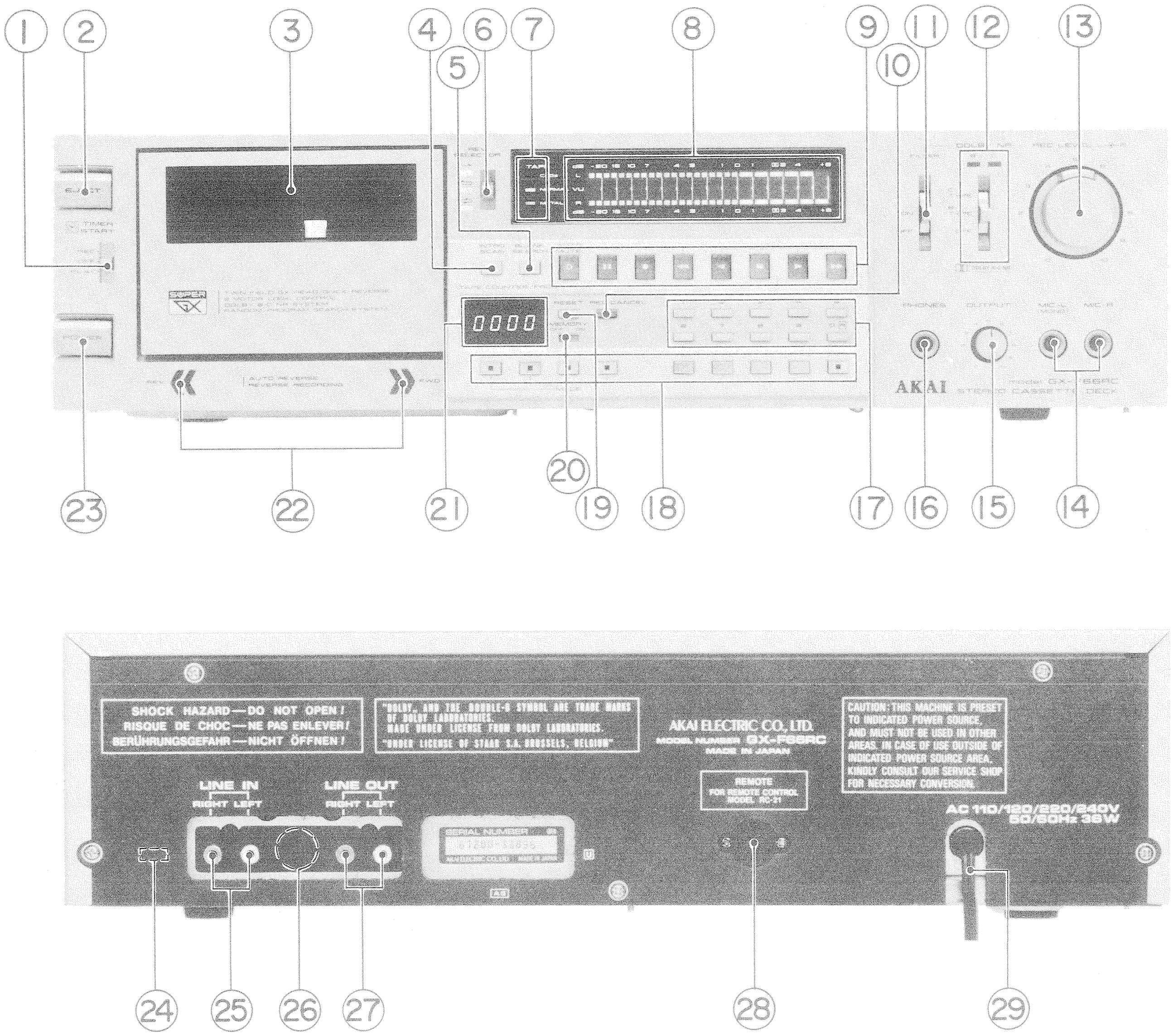
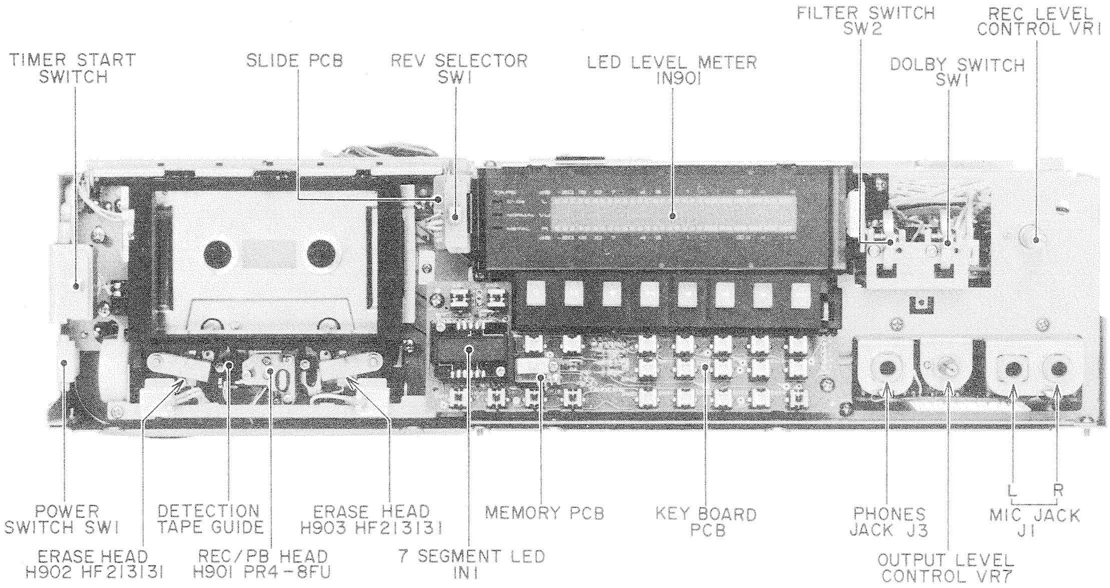

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
EJECT
POWER
AKAI
STEREO CASSETTE DECK
PHONES
OUTPUT
MIC-L
MIC-R
DOLBY NR
REC LEVEL
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
AKAI ELECTRIC CO., LTD.
MADE IN JAPAN
LINE IN
LINE OUT
RIGHT LEFT
SERIAL NUMBER
REMOTE
FOR REMOTE CONTROL
MODEL RC-21
AC 110/120/220/240V
50/60Hz 36W

Fig. 1 Controls

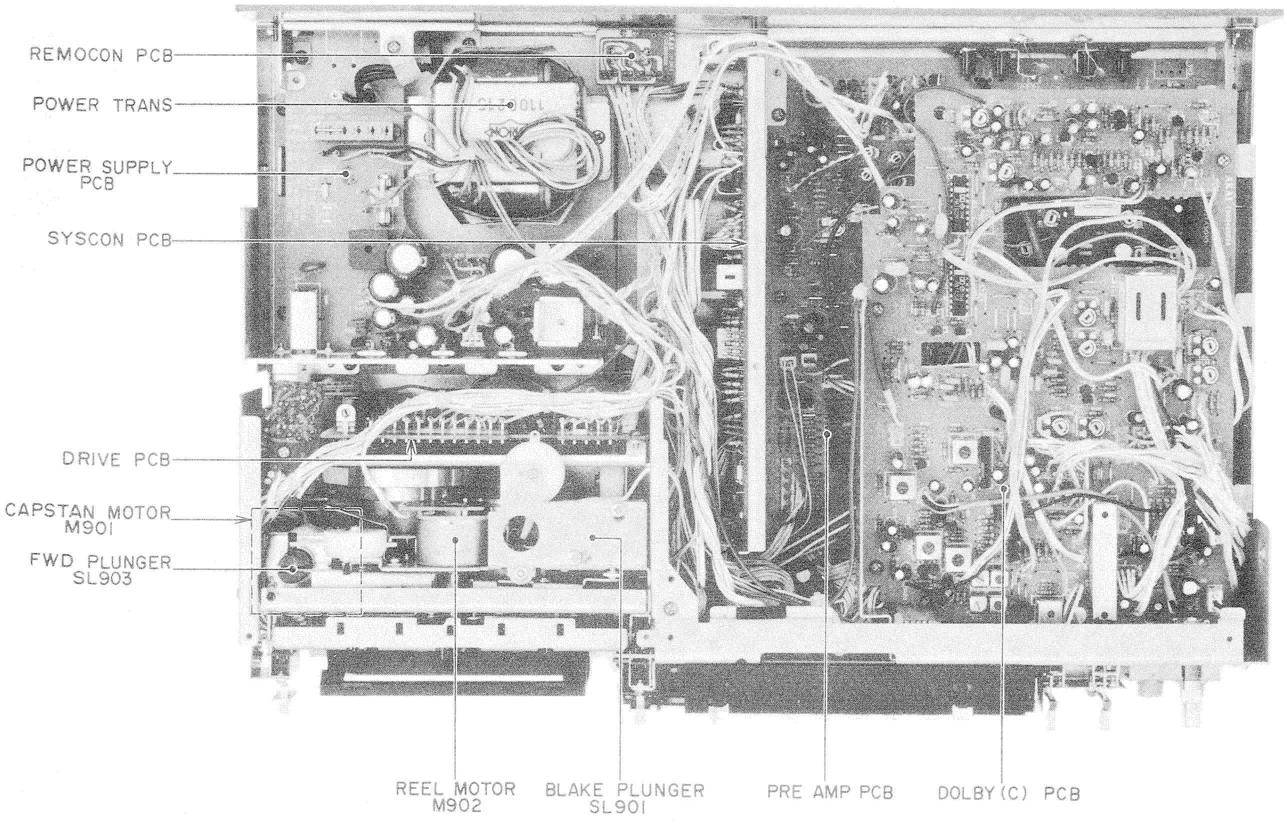
1. TIMER START SELECTOR
2. EJECT BUTTON
3. CASSETTE RECEPTACLE
4. INTRO SCAN BUTTON
5. BLANK SEARCH BUTTON
6. REVERSE (REV) SELECTOR
7. TAPE INDICATORS
8. LED BAR METER WITH MAXIMUM HOLD
9. OPERATING BUTTONS
   AUTO MUTE (◎) BUTTON
   PAUSE (II) BUTTON
   RECORDING [REC (●)] BUTTON
   REWIND (◀◀) BUTTON
   REVERSE (◀) BUTTON
   STOP (■) BUTTON
   FORWARD (▶) BUTTON
   FAST FORWARD (▶▶) BUTTON
10. RECORDING (REC) CANCEL BUTTON
11. FILTER SWITCH
12. DOLBY NR SELECTOR WITH INDICATORS
13. LEFT —•— RIGHT RECORDING LEVEL CONTROLS (REC LEVEL L —•— R)
14. MICROPHONE (MIC-L: LEFT, MIC-R: RIGHT) JACKS
15. OUTPUT CONTROL
16. HEADPHONE (PHONES) JACK
17. PROGRAMMING KEYS (1 TO 0 R)
18. RANDOM PROGRAM SEARCH SYSTEM (RPSS) KEYS
19. MEMORY SWITCH
20. RESET BUTTON
21. TAPE COUNTER/PROGRAM DISPLAY
22. DIRECTION INDICATORS
23. POWER SWITCH
24. LINE/DIN SELECTOR (SOME MODELS DO NOT HAVE THIS FACILITY.)
25. LINE IN JACKS (RIGHT AND LEFT)
26. DIN JACK (SOME MODELS DO NOT HAVE THIS FACILITY.)
27. LINE OUT JACKS (RIGHT AND LEFT)
28. REMOTE CONTROL JACK
29. POWER CORD (SOME MODELS ARE EQUIPPED WITH AN AC INLET INSTEAD. CONNECT WITH THE CONNECTION CORD SUPPLIED.)

III. PRINCIPAL PARTS LOCATION



TIMER START SWITCH
SLIDE PCB
REV SELECTOR SW1
LED LEVEL METER IN901
FILTER SWITCH SW2
REC LEVEL CONTROL VR1
DOLBY SWITCH SW1
POWER SWITCH SW1
DETECTION TAPE GUIDE
ERASE HEAD H903 HF213131
MEMORY PCB
KEY BOARD PCB
PHONES JACK J3
L
R
MIC JACK J1
ERASE HEAD H902 HF213131
REC/PB HEAD H901 PR4-8FU
7 SEGMENT LED IN1
OUTPUT LEVEL CONTROL VR7

Fig. 2 Front View



REMOCON PCB
POWER TRANS
POWER SUPPLY PCB
SYSCON PCB
DRIVE PCB
CAPSTAN MOTOR M901
FWD PLUNGER SL903
REEL MOTOR M902
BLAKE PLUNGER SL901
PRE AMP PCB
DOLBY(C) PCB

Fig. 3 Top View

IV. VOLTAGE AND CYCLE CONVERSION

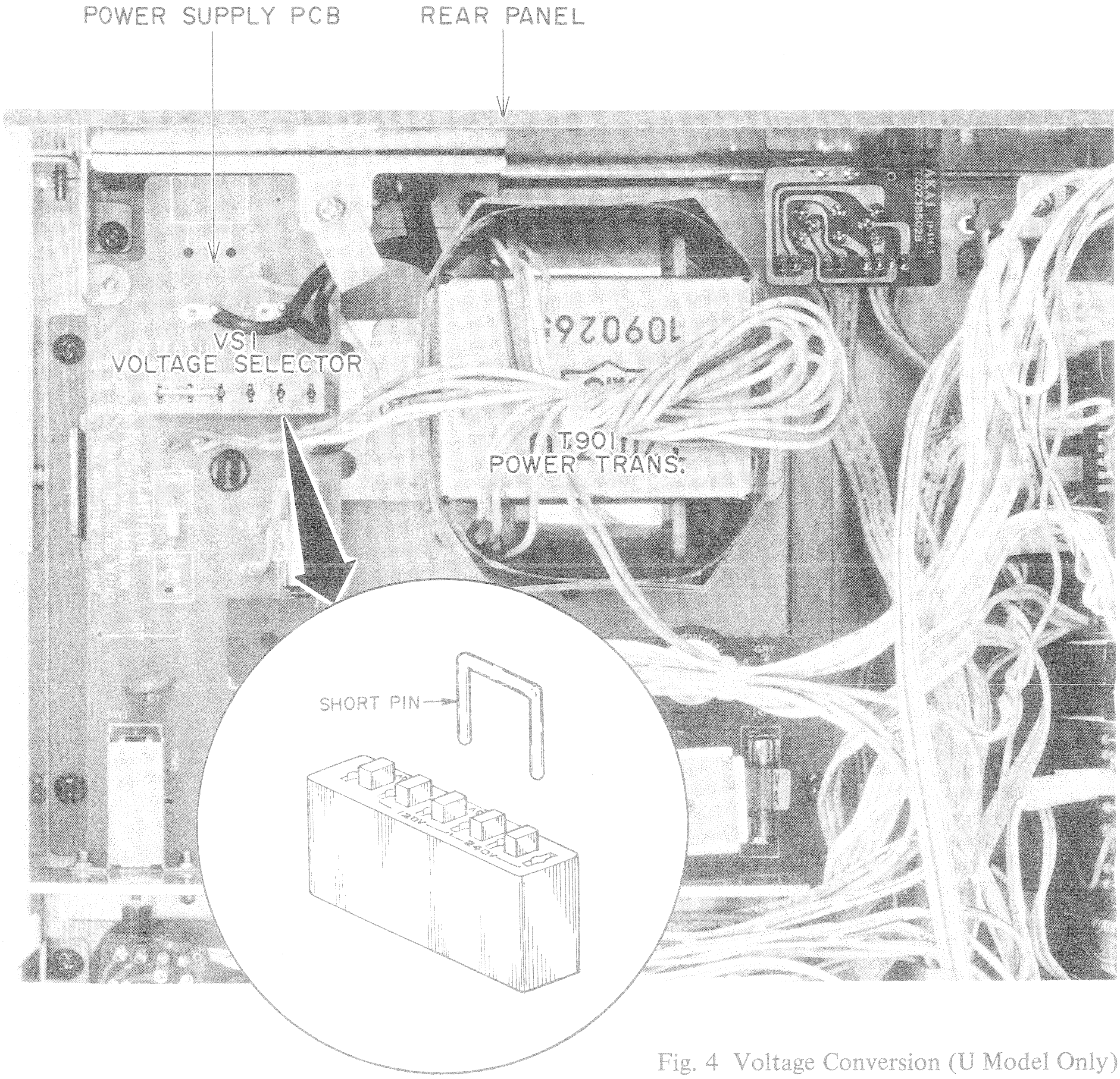

POWER SUPPLY PCB
REAR PANEL
VS1
VOLTAGE SELECTOR
T901
POWER TRANS.
AKAI
CAUTION
SHORT PIN
120V
240V

Fig. 4 Voltage Conversion (U Model Only)

1. VOLTAGE CONVERSION

Models for Canada, Europe, USA, UK, Australia and Japan are not equipped with this facility.

Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V or 240V as required.

If voltage change is necessary, this can be accomplished as follows:

1) Disconnect power cord.
2) Loosen holding screws and remove upper cover.
3) Remove short pin plug from present holes and replace in correct holes.
   Follow the markings explicitly.

2. CYCLE CONVERSION

With DC motor, cycle conversion is not necessary.

V. MECHANICAL AND HEAD ADJUSTMENT

Refer to Service Manual GX-F66R

VI. ELECTRICAL ADJUSTMENT

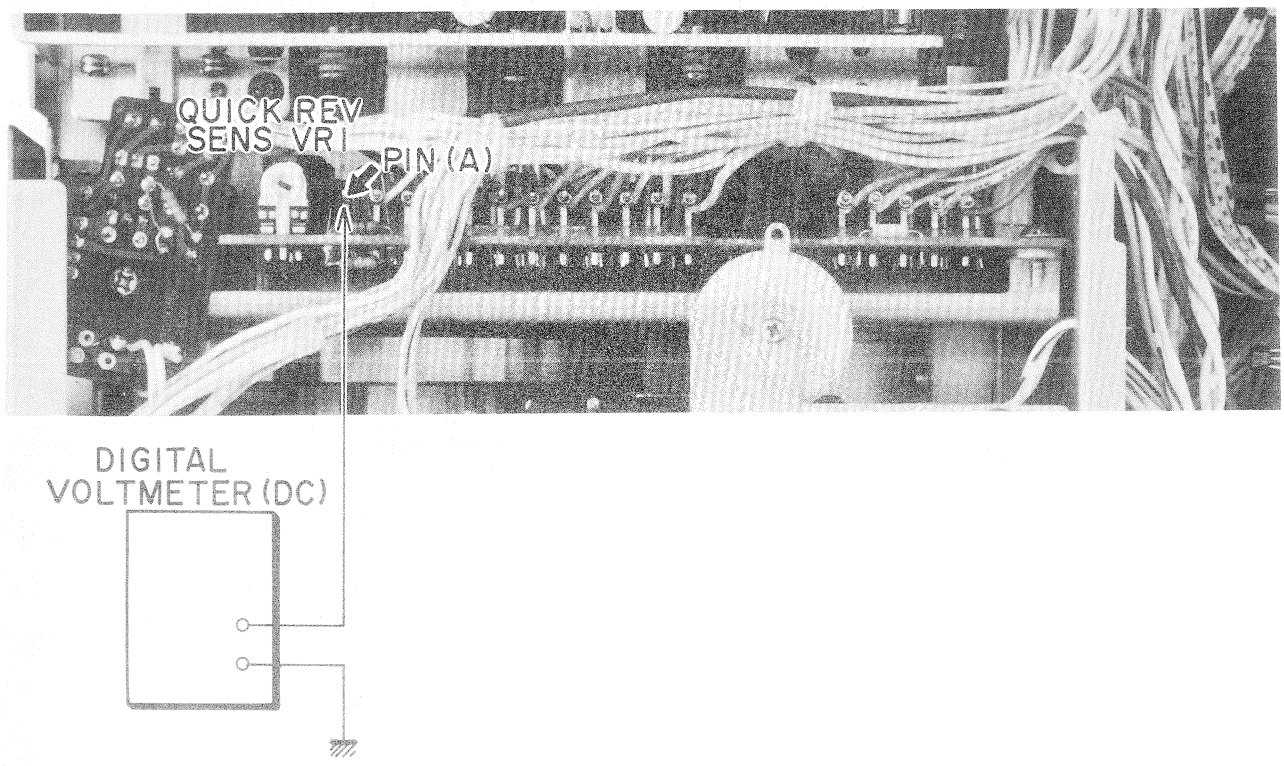

QUICK REV
SENS VR1
PIN (A)
DIGITAL
VOLTMETER (DC)

Fig. 5 Drive PCB

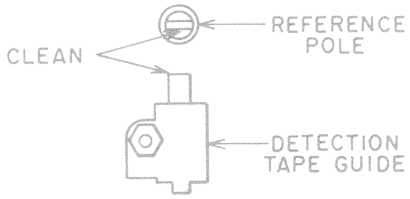

CLEAN
REFERENCE
POLE
DETECTION
TAPE GUIDE

Fig. 6

1. QUICK REVERSE SENSITIVITY ADJUSTMENT

1) Make a tapeless cassette pack by removing the tape from the white colored test tape.
2) Connect the Digital Voltmeter between the PIN (A) and earth.
3) Using the tapeless cassette pack, adjust VR1 so that the Digital Voltmeter readings 6V ±0.2V DC at FWD play mode.

NOTE: Clean the Reference Pole and the Detection Tape Guide, before this adjustment. (Fig. 6)

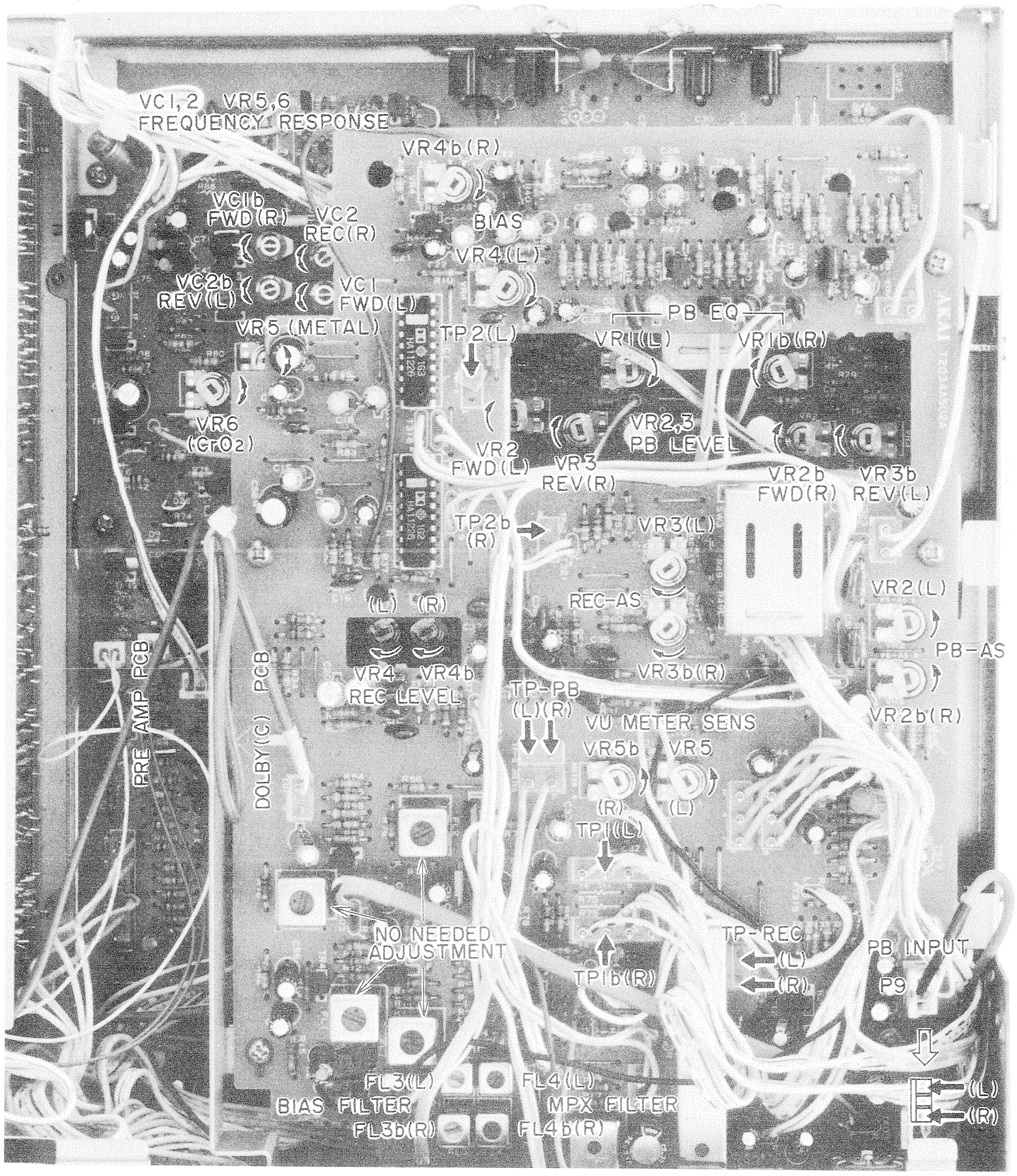

VC1,2 VR5,6
FREQUENCY RESPONSE
VR4b(R)
BIAS
VC1b FWD(R)
VC2 REC(R)
VR4(L)
VC2b REV(L)
VC1 FWD(L)
VR5 (METAL)
TP2(L)
PB EQ
VR1(L)
VR1b(R)
AKAI
VR6 (CrO2)
VR2,3 PB LEVEL
VR2 FWD(L)
VR3 REV(R)
VR2b FWD(R)
VR3b REV(L)
TP2b (R)
VR3(L)
REC-AS
VR2(L)
PB-AS
(L) (R)
VR4 VR4b
REC LEVEL
VR3b(R)
TP-PB (L)(R)
VR2b(R)
VU METER SENS
VR5b VR5
(R) (L)
PRE AMP PCB
DOLBY(C) PCB
TP1(L)
NO NEEDED ADJUSTMENT
TP-REC (L) (R)
PB INPUT
P9
TP1b(R)
FL3(L)
BIAS FILTER
FL3b(R)
FL4(L)
MPX FILTER
FL4b(R)
(L)
(R)

Fig. 7 Amplifier Adjustment

2. PRE AMPLIFIER ADJUSTMENT

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Parts	Result	Remarks
1	FWD PB Level	333 Hz Test Tape (TF-101CL)	FWD PB	VR2 Pre Amp PCB	–5.5 ± 0.5 dBm (410 mV)	
2	REV PB Level	333 Hz Test Tape (TF-101CL)	REV PB	VR3 Pre Amp PCB	–5.5 ± 0.5 dBm (410 mV)	
3	PB EQ	10 kHz Test Tape (TF-106 CH)	FWD PB REV PB	VR1 Pre Amp PCB	–19 ± 1.5 dBm	

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Parts	Result	Remarks
4	Normal Position Frequency Response (FWD)	Normal Blank Tape 1 kHz, 10 kHz –25.5 dBm	FWD REC/PB	VC1 Pre Amp PCB	1 kHz to 10 kHz flat response	
5	Normal Position Frequency Response (REV)	Normal Blank Tape 1 kHz, 10 kHz –25.5 dBm	REV REC/PB	VC2 Pre Amp PCB	1 kHz to 10 kHz flat response	
6	CrO_2 Position Frequency Response	CrO_2 Blank Tape 1 kHz, 10 kHz –25.5 dBm	FWD/REV REC/PB	VR6 Pre Amp PCB	1 kHz to 10 kHz flat response	
7	Metal Position Frequency Response	Metal Blank Tape 1 kHz, 10 kHz –25.5 dBm	FWD/REV REC/PB	VR5 Pre Amp PCB	1 kHz to 10 kHz flat response	
8	REC Level	Normal Blank Tape 1 kHz, –5.5 dBm	FWD/REV REC/PB	VR4 Pre Amp PCB	–5.5 ± 0.5 dBm (410 mV)	
9	MPX Filter	19 kHz from oscillator	REC	FL4 Dolby (C) PCB	Minimum Output	MPX Filter ON
10	Bias Filter	No Signal Input	REC	FL3 Dolby (C) PCB	Minimum Output	Set REC Volume to maximum
11	VU Meter Sensitivity	1 kHz, –5.5 dBm from oscillator	REC	VR5 Dolby (C) PCB	0 dB (VU) indication	

NOTES: 1. Output volume should be at maximum.
2. Dolby NR Switch to OFF Position.
3. Except for Step 9 set Dolby Filter Switch to OFF Position.
4. Use the following cassette measuring tapes:

Normal Tape:	Maxell UD C-60
CrO_2 Tape:	TDK SA C-60
Metal Tape:	TDK MA-C C-60

3. DOLBY ADJUSTMENT (Refer to Fig. 7 Dolby (C) PCB)

1) Set Dolby Switch to C-Type and the set to REC/PAUSE mode.
2) Input the signal of 700 Hz from LINE IN and adjust the input level so that TP1 will be 0 dBm (0.775V).
3) Adjust VR3 (REC-AS) so that TP-REC will be 0 ± 0.5 dBm.
4) Set Dolby Switch to OFF position.
5) Input the signal of 700 Hz from LINE IN and adjust the input level so that TP1 will be –30.5 dBm.
6) Set Dolby Switch to C-Type.
7) Adjust VR4 (BIAS) so that TP-REC will be –19.5 ±0.3 dBm.
8) Set Dolby Switch C-Type and the set to FWD PLAY mode.
9) Remove P9 connector (PB INPUT) and input the signal of 700 Hz from there.
10) Adjust the input level so that TP2 will be 0 dBm.
11) Adjust VR2 (PB-AS) so that TP-PB will be 0 ± 0.5 dBm.

NOTES: 1) For the adjustment, use Audio OSC, AC Voltmeter (mV meter).
2) Adjust both channels at right and left.

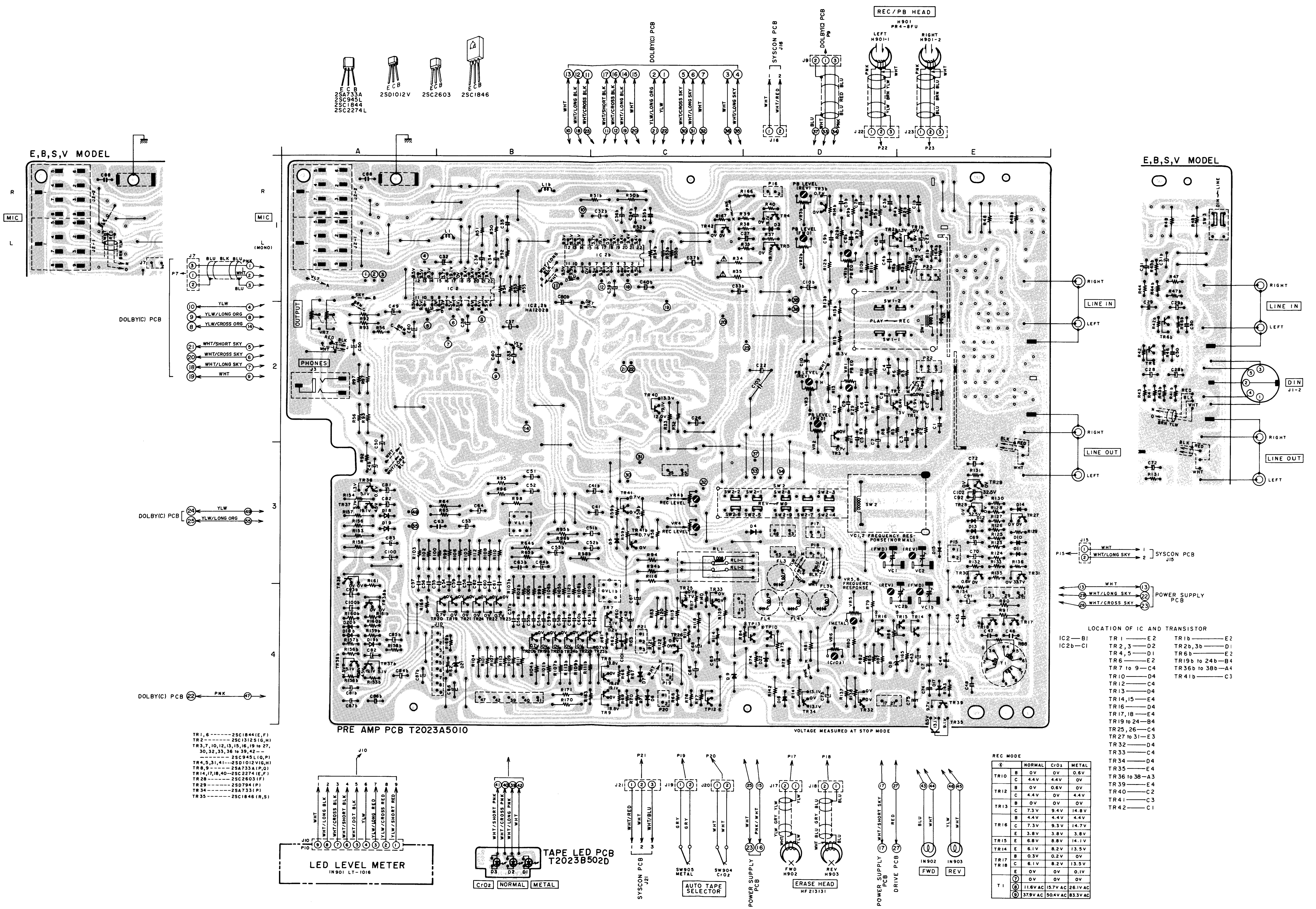
VII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C BOARD TITLE	P.C BOARD NUMBER
Pre Amp P.C Board	T2023A5010
Dolby (C) P.C Board	T2034A502A
Syscon P.C Board (2)	T2023B5100
Drive P.C Board	T2023C5040
Power Supply P.C Board	T2023B502A
Key Board P.C Board (2)	T2023C511A
Dolby LED P.C Board	T2023B502E
Tape LED P.C Board	T2023B502D
Remote Control P.C Board	T2023B502B
Slide P.C Board	T2023B502F
Reverse P.C Board	T2023D5070
Lamp P.C Board	T2022D5140
Filter P.C Board	CL-5026
LD P.C Board	T2023D5090
Lamp Meter P.C Board	T2023B502C
Memory P.C Board (2)	T2023C511B
Detector P.C Board	T2022D5150
”	CY-0023

2. COMPOSITION OF VARIOUS P.C BOARDS

1) Pre Amp P.C Board T2023A5010 (2ED) and Tape LED P.C Board T2023B502D


E C B
2SA733A
2SC945L
2SC1844
2SC2274L
E C B
2SD1012V
E C B
2SC2603
E C B
2SC1846
DOLBY(C) PCB
SYSCON PCB J16
DOLBY(C) PCB P9
REC/PB HEAD
H901 PR4-8FU
LEFT H901-1
RIGHT H901-2
E,B,S,V MODEL
MIC
R
L
L (MONO)
OUTPUT
PHONES
IC2, 2b HA12028
LINE IN
RIGHT
LEFT
LINE OUT
DIN J1-2
A
B
C
D
E
1
2
3
4
SW1
PLAY — REC
SW2
VC1,2 FREQUENCY RESPONSE (NORMAL)
VR5,6 FREQUENCY RESPONSE
REC LEVEL
PB LEVEL
SYSCON PCB J15
POWER SUPPLY PCB
PRE AMP PCB T2023A5010
VOLTAGE MEASURED AT STOP MODE
LED LEVEL METER
IN901 LT-1016
TAPE LED PCB T2023B502D
CrO2
NORMAL
METAL
SYSCON PCB J21
SW905 METAL
SW904 CrO2
AUTO TAPE SELECTOR
POWER SUPPLY PCB
FWD H902
REV H903
ERASE HEAD HF213131
POWER SUPPLY PCB
DRIVE PCB
IN902
IN903
FWD
REV

TR1, 6 ------- 2SC1844(E,F)
TR2 --------- 2SC1312S(G,H)
TR3, 7, 10, 12, 13, 15, 16, 19 to 27, 30, 32, 33, 36 to 39, 42 --------- 2SC945L(Q,P)
TR4, 5, 31, 41 --- 2SD1012V(G,H)
TR8, 9 ------ 2SA733A(P,Q)
TR14, 17, 18, 40 -- 2SC2274(E,F)
TR28 -------- 2SC2603(F)
TR29 -------- 2SD794(P)
TR34 -------- 2SA733(P)
TR35 -------- 2SC1846(R,S)

LOCATION OF IC AND TRANSISTOR

IC2 — B1
IC2b — C1

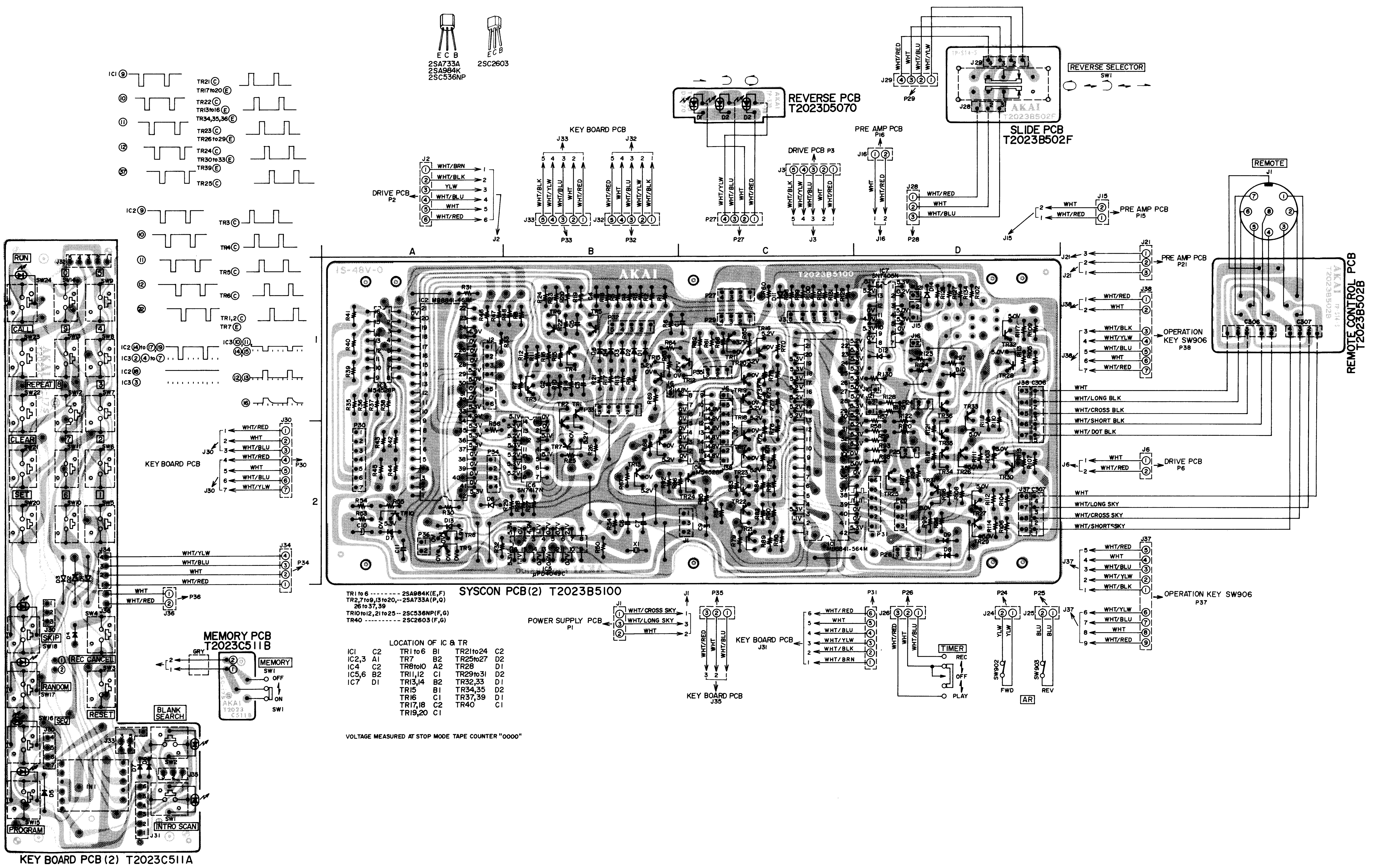
TR1 — E2
TR2, 3 — D2
TR4, 5 — D1
TR6 — E2
TR7 to 9 — C4
TR10 — D4
TR12 — C4
TR13 — D4
TR14, 15 — E4
TR16 — D4
TR17, 18 — E4
TR19 to 24 — B4
TR25, 26 — C4
TR27 to 31 — E3
TR32 — D4
TR33 — C4
TR34 — D4
TR35 — E4
TR36 to 38 — A3
TR39 — E4
TR40 — C2
TR41 — C3
TR42 — C1

TR1b — E2
TR2b, 3b — D1
TR6b — E2
TR19b to 24b — B4
TR36b to 38b — A4
TR41b — C3

REC MODE

※		NORMAL	CrO2	METAL
TR10	B	0V	0V	0.6V
	C	4.4V	4.4V	0V
TR12	B	0V	0.6V	0V
	C	4.4V	0V	4.4V
TR13	B	0V	0V	0V
	C	7.3V	9.4V	14.8V
TR16	B	4.4V	4.4V	4.4V
	C	7.3V	9.3V	14.7V
	E	3.8V	3.8V	3.8V
TR15	E	6.8V	8.8V	14.1V
TR14	E	6.1V	8.2V	13.5V
TR17 TR18	B	0.3V	0.2V	0V
	C	6.1V	8.2V	13.5V
	E	0V	0V	0.1V
T1	⑦	0V	0V	0V
	⑧	11.6V AC	15.7V AC	26.1V AC
	⑨	37.9V AC	50.4V AC	83.3V AC

2) Syscon P.C Board (2) T2023B5100, Key Board P.C Board (2) T2023C511A, Remote Control P.C Board T2023B502B, Slide P.C Board T2023B502F, Reverse P.C Board T2023D5070 and Memory P.C Board (2) T2023C511B


2SA733A
2SA984K
2SC536NP
2SC2603
E C B
REVERSE PCB T2023D5070
REVERSE SELECTOR
SW1
SLIDE PCB T2023B502F
PRE AMP PCB
DRIVE PCB
KEY BOARD PCB
REMOTE
REMOTE CONTROL PCB T2023B502B
OPERATION KEY SW906
SYSCON PCB(2) T2023B5100
KEY BOARD PCB (2) T2023C511A
MEMORY PCB T2023C511B
POWER SUPPLY PCB
TIMER
REC
OFF
PLAY
AR
FWD
REV
RUN
CALL
REPEAT
CLEAR
SET
SKIP
REC CANCEL
RANDOM
RESET
SEQ
PROGRAM
BLANK SEARCH
INTRO SCAN
AKAI

TR1 to 6 -------- 2SA984K(E,F)
TR2,7 to 9,13 to 20,-- 2SA733A(P,Q)
26 to 37,39
TR10 to 12,21 to 25-- 2SC536NP(F,G)
TR40 ---------- 2SC2603(F,G)

LOCATION OF IC & TR

IC1	C2	TR1 to 6	B1	TR21 to 24	C2
IC2,3	A1	TR7	B2	TR25 to 27	D2
IC4	C2	TR8 to 10	A2	TR28	D1
IC5,6	B2	TR11,12	C1	TR29 to 31	D2
IC7	D1	TR13,14	B2	TR32,33	D1
		TR15	B1	TR34,35	D2
		TR16	C1	TR37,39	D1
		TR17,18	C2	TR40	C1
		TR19,20	C1		

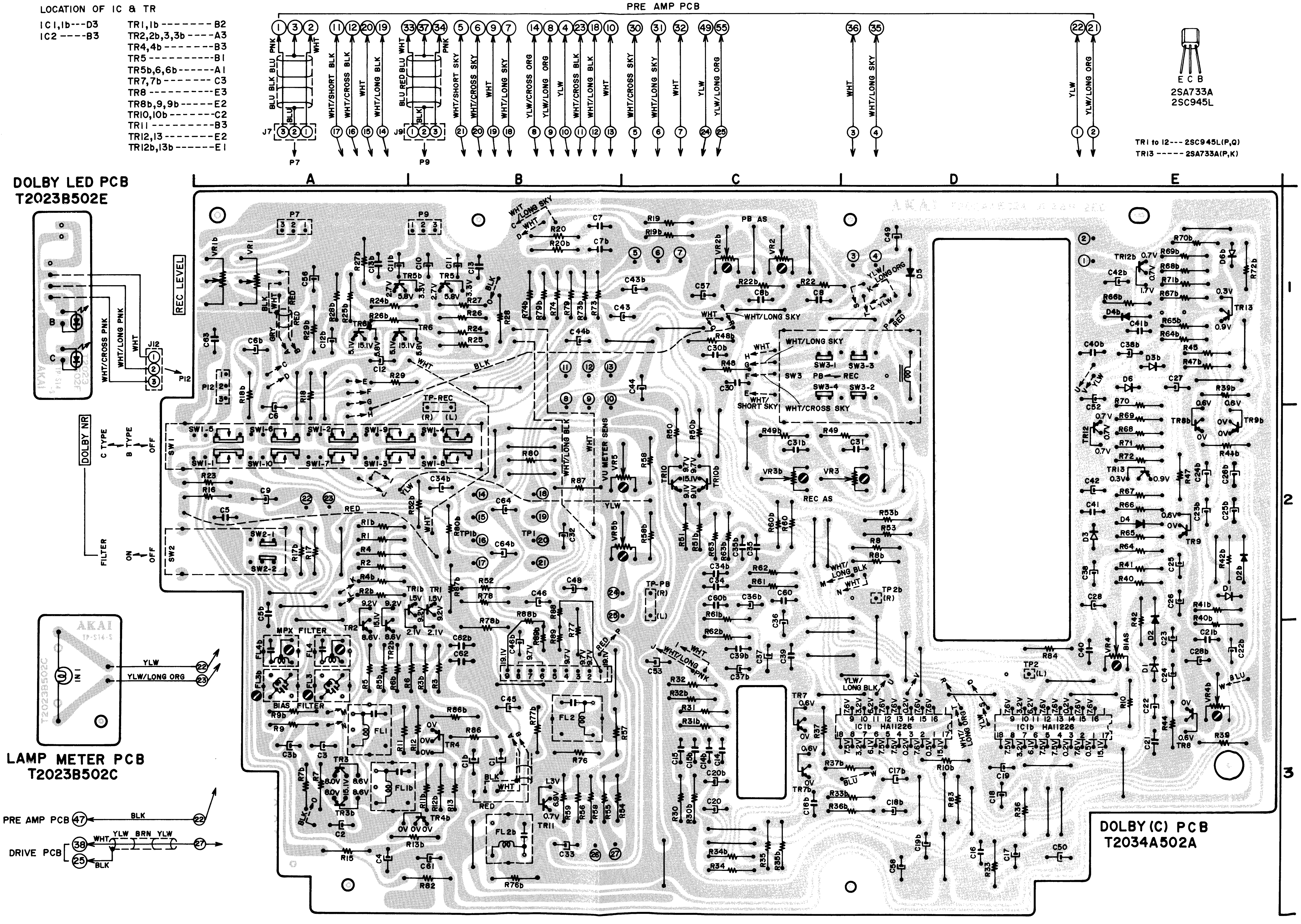
VOLTAGE MEASURED AT STOP MODE TAPE COUNTER "0000"

3) Dolby (C) P.C Board T2034A502A, Dolby LED P.C Board T2023B502E and Lamp Meter P.C Board T2023B502C

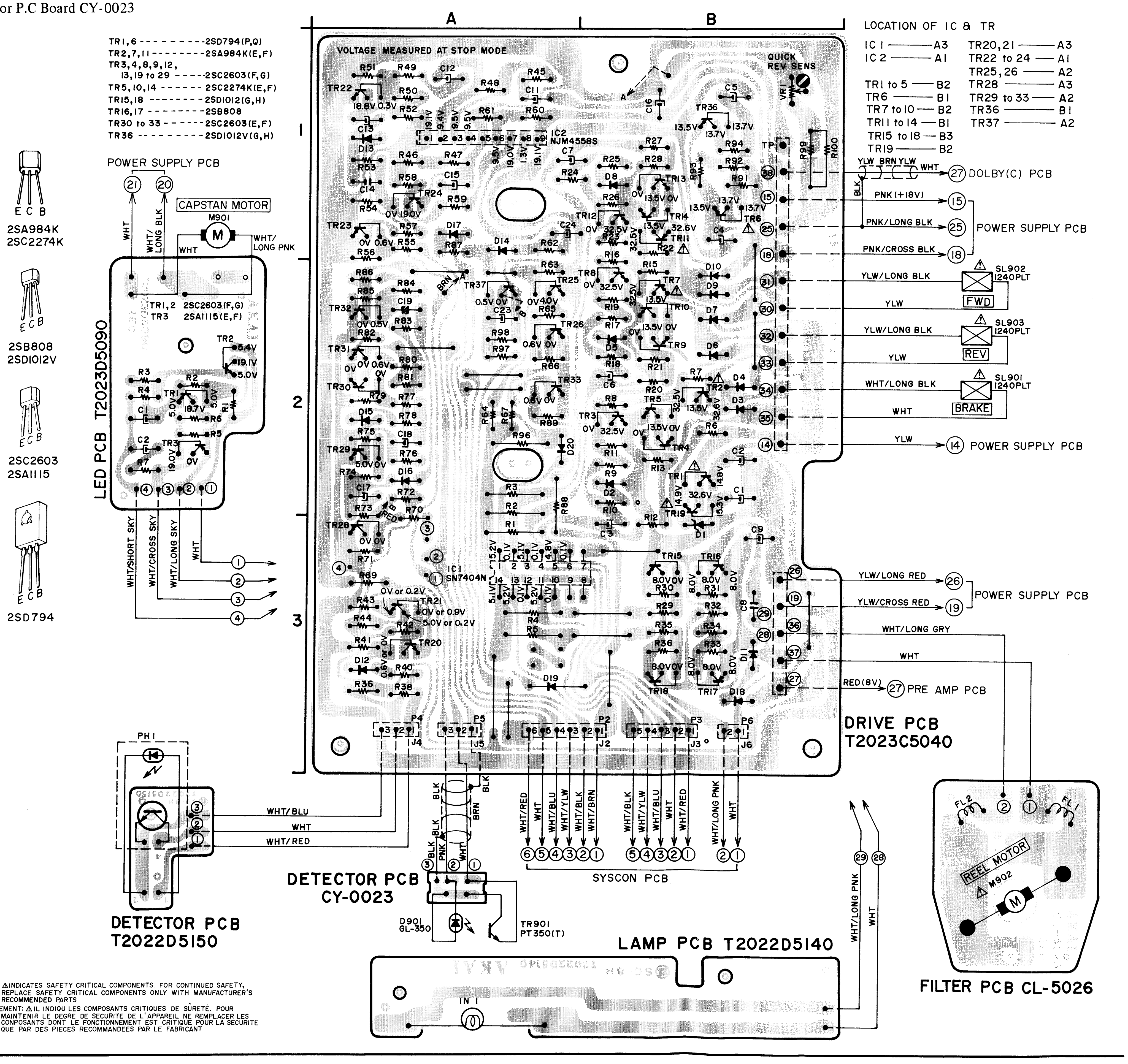
LOCATION OF IC & TR

IC1,1b---D3
IC2 ----B3

TR1,1b --------- B2
TR2,2b,3,3b ----A3
TR4,4b ---------B3
TR5 ------------B1
TR5b,6,6b-------A1
TR7,7b -------- C3
TR8 ------------E3
TR8b,9,9b ------E2
TR10,10b --------C2
TR11 -----------B3
TR12,13 ---------E2
TR12b,13b -------E1


PRE AMP PCB
P7
P9
J7
J9
A
B
C
D
E
1
2
3
E C B
2SA733A
2SC945L
TR1 to 12---2SC945L(P,Q)
TR13 -----2SA733A(P,K)
DOLBY LED PCB
T2023B502E
REC LEVEL
DOLBY NR
C TYPE
B TYPE
OFF
FILTER
ON
OFF
SW1
SW2
MPX FILTER
BIAS
FILTER
TP-REC
TP-PB
VU METER SENS
REC AS
PB AS
SW3 PB — REC
IC1b HA11226
AKAI
LAMP METER PCB
T2023B502C
YLW
YLW/LONG ORG
PRE AMP PCB
BLK
DRIVE PCB
WHT
YLW
BRN
YLW
BLK
DOLBY (C) PCB
T2034A502A

4) Drive P.C Board T2023C5040 (4ED), LED P.C Board T2023D5090 (2ED), Lamp P.C Board T2022D5140, Filter P.C Board CL-5026 (2ED), Detector P.C Board T2022D5150 and Detector P.C Board CY-0023



A
B
1
2
3
VOLTAGE MEASURED AT STOP MODE
QUICK REV SENS
IC2 NJM4558S
IC1 SN7404N
POWER SUPPLY PCB
CAPSTAN MOTOR
M901
WHT
WHT/LONG BLK
WHT/LONG PNK
TR1,2 2SC2603(F,G)
TR3 2SA1115(E,F)
LED PCB T2023D5090
E C B
2SA984K
2SC2274K
2SB808
2SD1012V
2SC2603
2SA1115
2SD794
WHT/SHORT SKY
WHT/CROSS SKY
WHT/LONG SKY
YLW BRN YLW WHT
BLK
㉗ DOLBY(C) PCB
PNK(+18V)
⑮
PNK/LONG BLK
㉕
PNK/CROSS BLK
⑱
POWER SUPPLY PCB
YLW/LONG BLK
YLW
SL902 1240PLT
FWD
SL903 1240PLT
REV
WHT/LONG BLK
WHT
SL901 1240PLT
BRAKE
⑭ POWER SUPPLY PCB
YLW/LONG RED
㉖
YLW/CROSS RED
⑲
WHT/LONG GRY
RED(8V)
㉗ PRE AMP PCB
DRIVE PCB T2023C5040
P4 J4 P5 J5 P2 J2 P3 J3 P6 J6
PH1
WHT/BLU
WHT/RED
DETECTOR PCB T2022D5150
BLK
BRN
PNK
DETECTOR PCB CY-0023
D901 GL-350
TR901 PT350(T)
WHT/YLW
WHT/BLK
WHT/BRN
WHT/LONG PNK
SYSCON PCB
LAMP PCB T2022D5140
IN1
㉙ ㉘
FL2 FL1
REEL MOTOR
M902
FILTER PCB CL-5026

TR1,6	2SD794(P,Q)
TR2,7,11	2SA984K(E,F)
TR3,4,8,9,12, 13,19 to 29	2SC2603(F,G)
TR5,10,14	2SC2274K(E,F)
TR15,18	2SD1012(G,H)
TR16,17	2SB808
TR30 to 33	2SC2603(E,F)
TR36	2SD1012V(G,H)

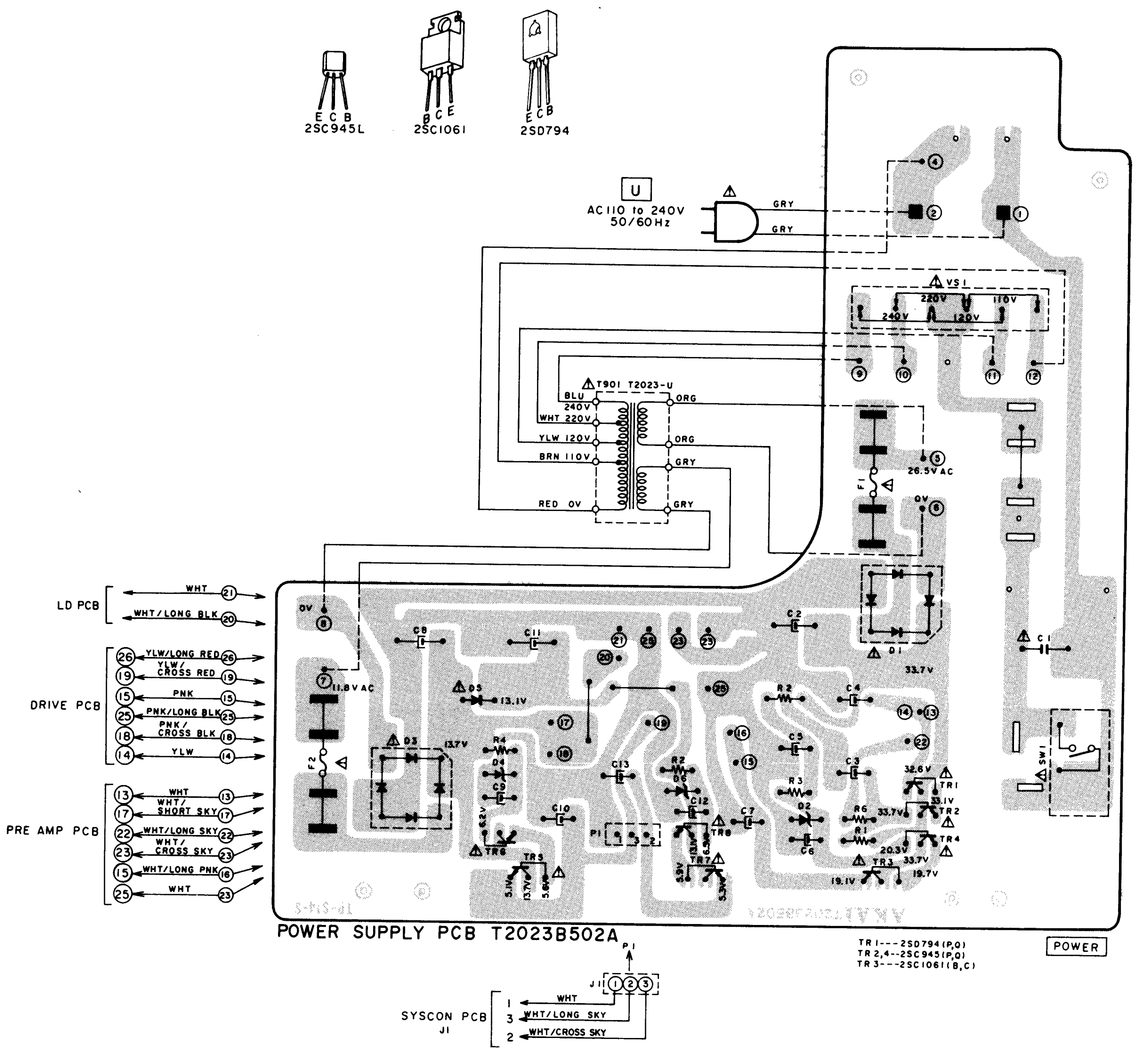
LOCATION OF IC & TR

IC 1	A3	TR20,21	A3
IC 2	A1	TR22 to 24	A1
		TR25,26	A2
TR1 to 5	B2	TR28	A3
TR6	B1	TR29 to 33	A2
TR7 to 10	B2	TR36	B1
TR11 to 14	B1	TR37	A2
TR15 to 18	B3		
TR19	B2		

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

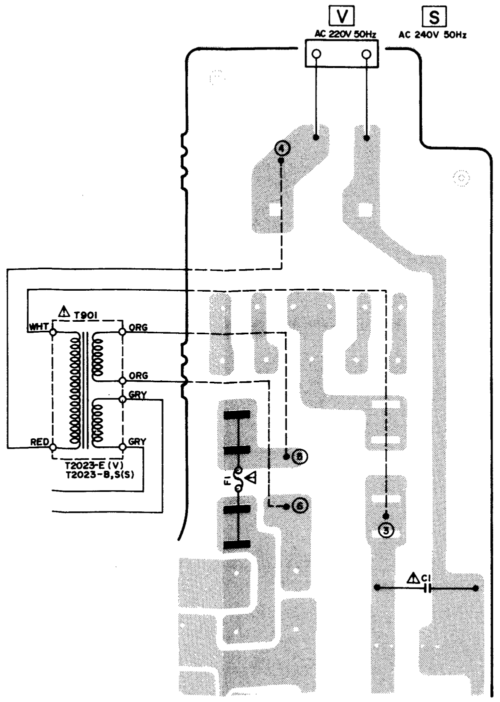
5) Power Supply P.C Board T2023B502A



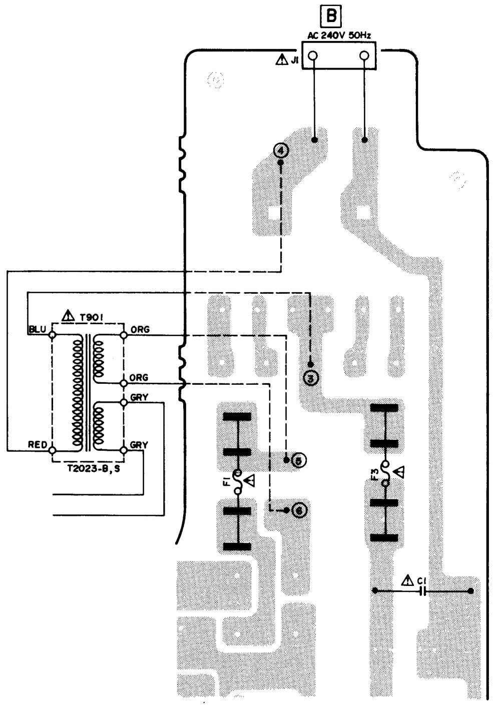
E C B
2SC945L
B C E
2SC1061
E C B
2SD794
U
AC 110 to 240V 50/60Hz
GRY
GRY
VS1
220V
110V
240V
120V
T901 T2023-U
BLU 240V
WHT 220V
YLW 120V
BRN 110V
RED 0V
ORG
ORG
GRY
GRY
26.5V AC
0V
F1
F2
LD PCB
WHT
WHT/LONG BLK
DRIVE PCB
YLW/LONG RED
YLW/CROSS RED
PNK
PNK/LONG BLK
PNK/CROSS BLK
YLW
PRE AMP PCB
WHT
WHT/SHORT SKY
WHT/LONG SKY
WHT/CROSS SKY
WHT/LONG PNK
WHT
11.8V AC
13.1V
13.7V
D1
D2
D3
D4
D5
D6
C1
C2
C3
C4
C5
C6
C7
C8
C10
C11
C12
C13
R1
R2
R3
R4
R6
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
33.7V
32.6V
33.1V
33.7V
20.3V
19.1V
19.7V
SW1
POWER SUPPLY PCB T2023B502A
P1
J1
SYSCON PCB J1
WHT
WHT/LONG SKY
WHT/CROSS SKY
TR1---2SD794(P,Q)
TR2,4---2SC945(P,Q)
TR3---2SC1061(B,C)
POWER

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

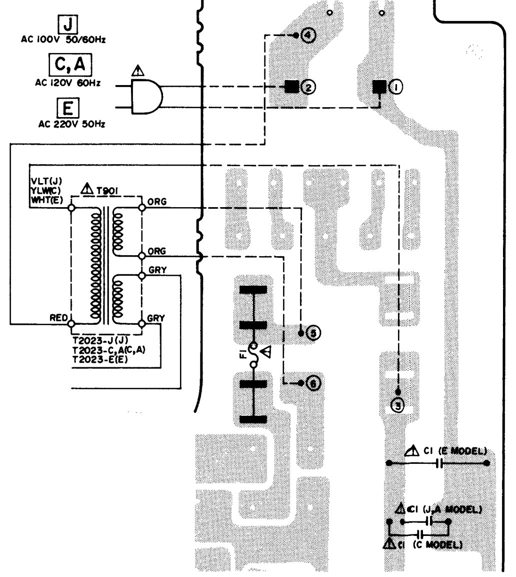
AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT



V
AC 220V 50Hz
S
AC 240V 50Hz
T901
WHT
ORG
ORG
GRY
RED
GRY
T2023-E(V)
T2023-B,S(S)
F1
C1



B
AC 240V 50Hz
J1
T901
BLU
ORG
ORG
GRY
RED
GRY
T2023-B,S
F1
F3
C1



J
AC 100V 50/60Hz
C,A
AC 120V 60Hz
E
AC 220V 50Hz
VLT(J)
YLW(C)
WHT(E)
T901
ORG
ORG
GRY
RED
GRY
T2023-J(J)
T2023-C,AC,A)
T2023-E(E)
F1
C1 (E MODEL)
C1 (J,A MODEL)
C1 (C MODEL)

—MEMO—

—MEMO—

SECTION 2

PARTS LIST

TABLE OF CONTENTS

1. RECOMMENDED SPARE PARTS 21
2. HEAD BASE BLOCK 22
3. REEL TABLE BLOCK 23
4. MECHA FRAME BLOCK 24
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6. SYS. CON. P.C BOARD BLOCK 26
7. POWER SUPPLY P.C BOARD BLOCK 26
8. DRIVE P.C BOARD BLOCK 27
9. DOLBY (C) P.C BOARD BLOCK 27
10. KEYBOARD (2) P.C BOARD BLOCK 27
11. LD P.C BOARD BLOCK 27
12. FILTER P.C BOARD BLOCK 27
13. ASSEMBLY BLOCK 28
14. FINAL ASSEMBLY BLOCK 30
INDEX 31

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Ref. No.	Parts No.	Description
		FLYWHEEL BLOCK #13
12-115x	800425	Flywheel Block Assy. Comp.
12-116	244506	Flywheel Only
12-117x	244754	Felt, Flywheel
12-118	251324	Main Metal Case
12-119	253080	Main Metal

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram of Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

CAUTION:

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMEMNDED PARTS.

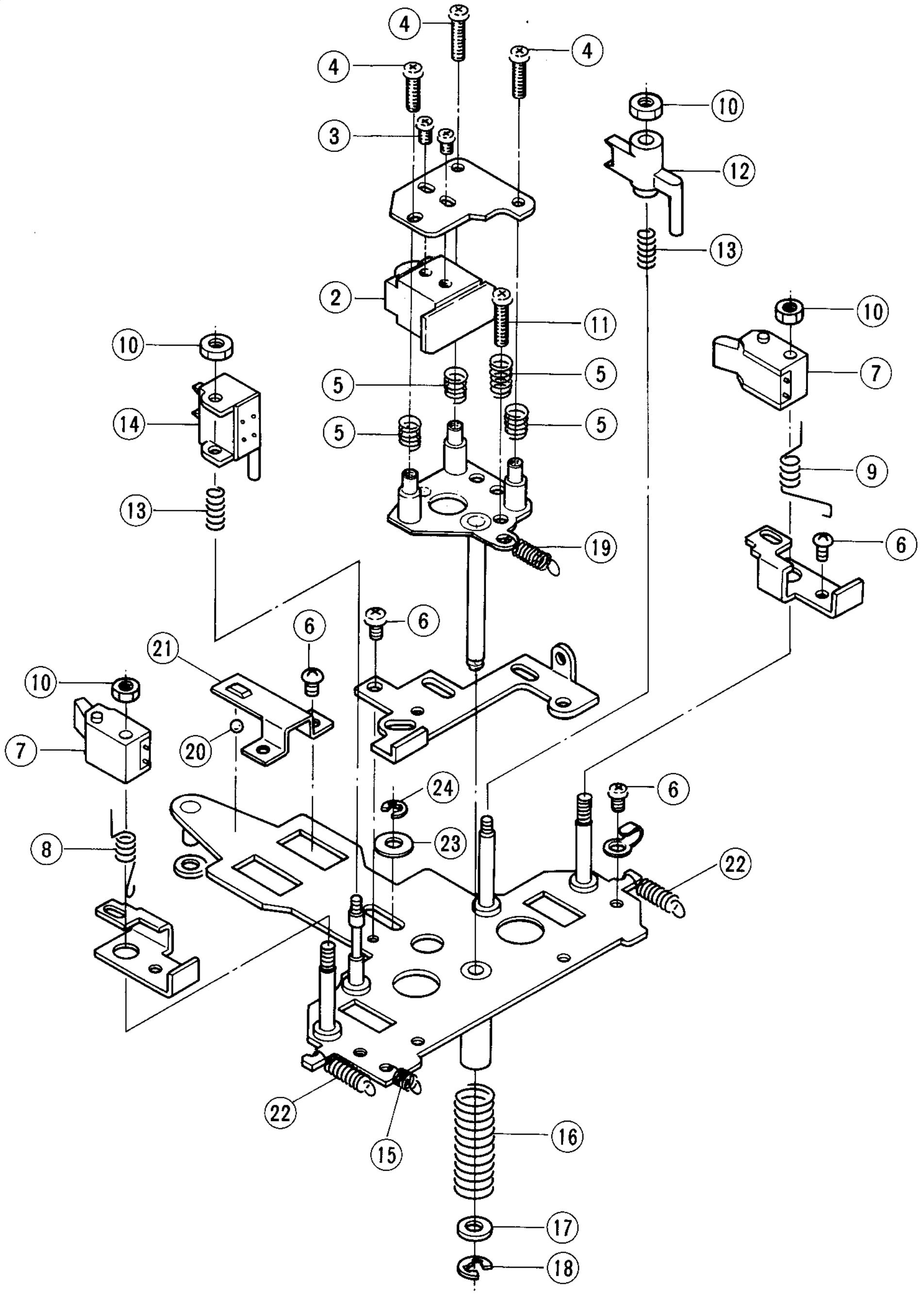
AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BHT2023A320A	HEAD BASE BLK GX-F66R
1-2	BI312117	REW IDLER ASSY
1-3	BI312118	TAKE UP IDLER ASSY
1-4	BMT2022A080A	⚠ MOTOR (PULLEY) BLK CS-F33R
1-5	BM314843	⚠ MOTOR EG-510ED-2F
1-6	BM328441	⚠ MOTOR RF-510T(12620)
1-7	BMT2016A320A	⚠ REEL MOTOR BLK (W/PULLEY) GX-F35
1-8	BR328424	TAKE-UP REEL TABLE ASSY
1-9	BT331665	⚠ TRANS POWER T2023-C,A (C,A,V)
1-10	BT331663	⚠ TRANS POWER T2023-J
1-11	BT331662	⚠ TRANS POWER T2023-U
1-12	BT331666	TRANS POWER T2023-B,S
1-13	BT331664	TRANS POWER T2023-E
1-14	EC315346	C S-FIX H ECV-1ZW50×32E 5.0-55
1-15	ED308953	D GERMA H 1K34A-LH SNP
1-16	ED308952	D GERMA V 1K34A-LR F07
1-17	ED331227	D GERMA V 1K34A-UF SNP
1-18	ED322982	D GERMA V 1S188FM-1-LR F07
1-19	ED322773	D LED SLP-255D-01 GRN
1-20	ED624903	D SILICON H 1S2473
1-21	ED316143	D SILICON H 1S2473HS F10
1-22	ED560913	D SILICON V 1S2473VE
1-23	ED306109	D SILICON W03B 100/1.0A
1-24	ED319463	D SILICON 4B4B41 100/4.0A
1-25	ED328486	D ZENER H HZ15 3
1-26	ED324013	D ZENER H HZ20 2
1-27	ED331626	D ZENER H HZ3 B2
1-28	ED305704	D ZENER H HZ4 B2
1-29	ED319167	D ZENER H HZ6 C3
1-30	ED331667	D ZENER H HZ7 A1
1-31	ED306014	D ZENER H HZ9 C3
1-32	ED331263	IND LE LT-1016 GRAPH
1-33	EF593706	⚠ FUSE SEMKO T 250V 0.50A (F3) (B)
1-34	EF601301	⚠ FUSE SEMKO T 250V 2A (F1,2) (E, B, S, V)
1-35	EF306950	⚠ FUSE TSC A 250V 2A (F1,2) (U,J)
1-36	EF306954	⚠ FUSE TSC 125V 2A (F1,2) (C,A)
1-37	EI336737	IC HA11226
1-38	EI336761	IC LA6458S
1-39	EI331658	IC MB8841-461M
1-40	EI336801	IC MB8841-564M
1-41	EI331659	IC M54528P
1-42	EI201940	IC NJM4558S
1-43	EI302681	IC SN7404N
1-44	EI331661	IC SN7405N
1-45	EI331660	IC SN7417N
1-46	EI319555	IC μPD4049C
1-47	EJ310567	⚠ SOCKET INLET 0378PC-GS E 2P (B, S, V)
1-48	EJ321328	PHONE J HLJ0345-010 2×3P (P)
1-49	EJ337622	PHONE J THROW HLJ0345-210 3P 2×3P
1-50	EJ330545	PHONE J 3P HLJ0315-020 6.3 (P)
1-51	EJ337623	PHONE J 3P HLJ0315-023 6.3
1-52	EL309960	PL CORD 24.0V 50mA 450/450
1-53	EL304025	PL H LEAD 10V 110mA
1-54	EL317599	PL H LEAD 6.3V 100mA
1-55	EL300186	PL LEAD 8V 60mA
1-56	EM331669	IND LE SL-1003 CHARACTER
1-57	EP318644	⚠ SOLENOID 1240PLT 27V
1-58	EP318645	⚠ SOLENOID 1240PLT 27V
1-59	EP328529	RELAY LEAD LAB2NS 2NO 12V
1-60	ER328490	FILTER DB D07-001K 19KHz
1-61	ER328491	FILTER DB D07-003K 100KHz
1-62	ES312234	⚠ SW PUSH SDL-1P 01-1 E (U, E, B, S, V)
1-63	ES312235	⚠ SW PUSH SDL-1P 01-1 J (J)
1-64	ES312238	⚠ SW PUSH SDL-1P 01-1 UC (C,A)
1-65	ES330521	SW LEAF BSW-47AB 01-1 NC
1-66	ES330522	SW LEAF BSW-47AC 01-1 NC
1-67	ES332448	SW LEVER 01030123 2-10-03N
1-68	ES336779	SW LEVER 2-02-02S
1-69	ES283072	SW SLIDE SSC22LP 2-02-02N (E, B, S, V)
1-70	ES201527	SW SLIDE SSS212 1-01-02N
1-71	ES337322	SW SLIDE 00230699 2-02-03N
1-72	ES311975	SW SOLENOID R8150050 27V 10-2W
1-73	ES328415	SW SOLENOID SWE018401 18V 04-2S
1-74	ES328530	SW SOLENOID SWE018404 18V 04-2N
1-75	ES323367	SW TACT KEC10001
1-76	ES324677	SW TACT KEC11904
1-77	ET311977	PHOTO SENSOR SPI-201
1-78	ET200558	TR 2SA1115 E,F
1-79	ET336735	TR 2SA733(A) P,K
1-80	ET539133	TR 2SA733A P
1-81	ET554657	TR 2SA733A P,Q
1-82	ET324134	TR 2SA984K E,F
1-83	ET328438	TR 2SB808-V F, G
1-84	ET375603	TR 2SC1061 B,C
1-85	ET603257	TR 2SC1312S G,H
1-86	ET308954	TR 2SC1844 E,F
1-87	ET310920	TR 2SC1846 R,S
1-88	ET309353	TR 2SC2274 E, F
1-89	ET200506	TR 2SC2603 F
1-90	ET200985	TR 2SC2603 F,G
1-91	ET635231	TR 2SC536NP F,G
1-92	ET639437	TR 2SC945L Q,P
1-93	ET328868	TR 2SD1012-V G,H
1-94	ET666404	TR 2SD571 K,L
1-95	ET332245	TR 2SD794 P
1-96	ET307349	TR 2SD794 P,Q
1-97	ET307349	TR 2SD794 P,Q
1-98	EV316442	R S-FIX H D8 3P 102
1-99	EV315542	R S-FIX H D8 3P 103
1-100	EV322411	R S-FIX H D8 3P 202
1-101	EV315753	R S-FIX H D8 3P 203
1-102	EV315540	R S-FIX H D8 3P 502
1-103	EV315541	R S-FIX H D8 3P 503
1-104	EV522652	R S-FIX V V8K1-1 3P 105
1-105	EV202110	VR ROTARY 16P11×0S A503 A503
1-106	EV313538	VR ROTARY 16P20×1B B103
1-107	HE325859	HEAD E HF213131 C
1-108	HPH2206A010A	HEAD R/P PR4-8FU C
1-109	MB314317	BELT CAPSTAN
1-110	MB314722	BELT COUNTER
1-111	MIB601782	FLYWHEEL (A) PART
1-112	MIB601783	FLYWHEEL (B) PART
1-113	MV328322	MAIN CASE
1-114	MZ283140	⚠ SOCKET SELECTOR X-17238 6P (U)
1-115	TCT2010D090A	PINCH ROLLER (L) BLK CS-M40R
1-116	TCT2010D100A	PINCH ROLLER (R) BLK CS-M40R

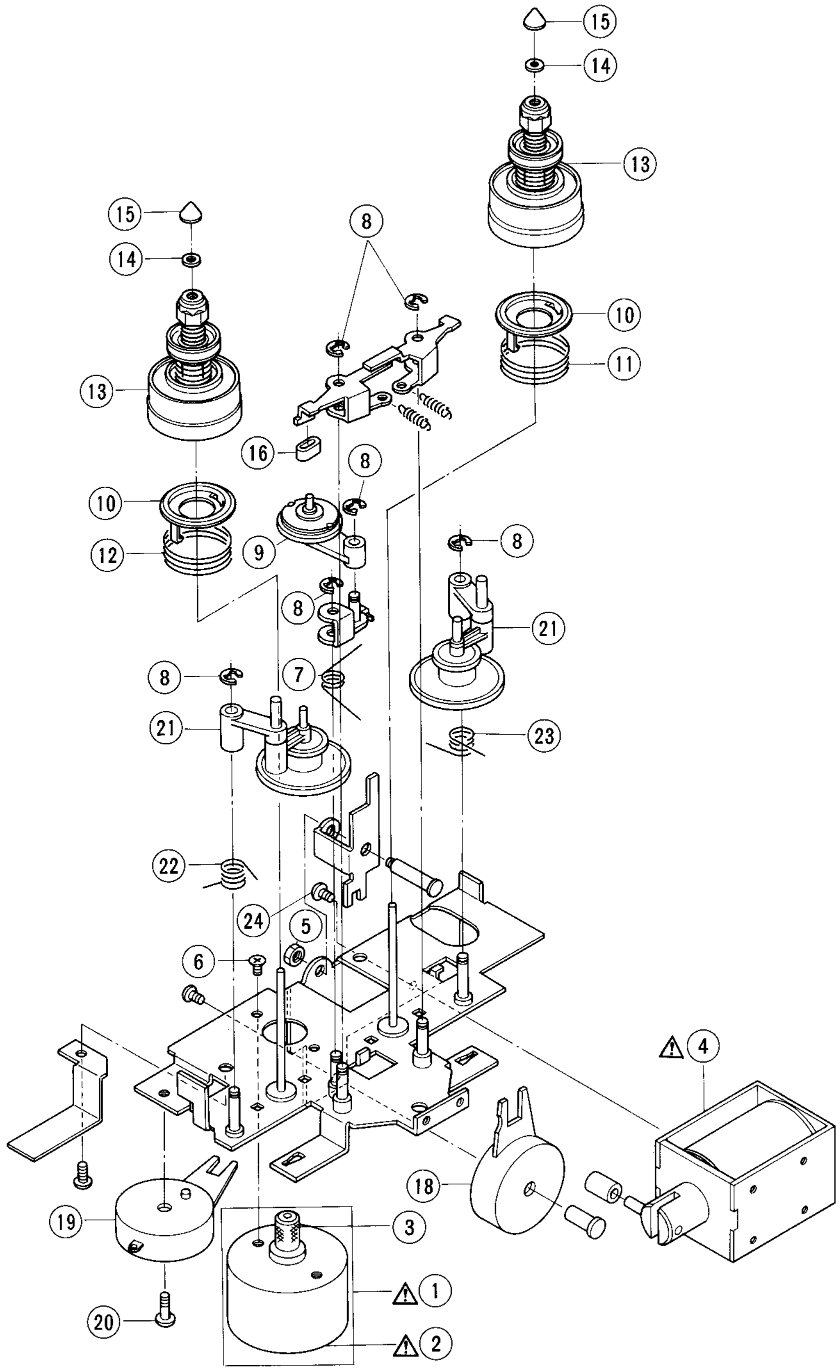
HEAD BASE BLOCK



2. HEAD BASE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BHT2023A320A	HEAD BASE BLK GX-F66R
2-2	HPH2206A010A	HEAD R/P PR4-8FU C
2-3	ZS477876	PAN20×03STL CMT
2-4	ZS536488	BID20×08STL CMT
2-5	ZG402895	CS ANGLE ADJUST SPRING
2-6	ZS592378	PAN26×03STL CMT
2-7	HE325859	HEAD E HF213131 C
2-8	ZG313316	ERASE HEAD SPRING (A)
2-9	ZG313874	ERASE HEAD SPRING (B)
2-10	ZW273734	N20BRS NI3 1
2-11	ZS465298	PAN23×10STL CMT
2-12	HZ313313	TAPE GUIDE
2-13	ZG313314	ADJUST SPRING
2-14	BZT2010A070A	DETECTION TAPE GUIDE BLK CS-M40R
2-15	ZG312921	SP T1-3.2/0.2-9.0 T1-038
2-16	ZG313960	SP PUSH
2-17	ZW556828	PW32×100×050STL CMT
2-18	ZW270088	RING E 190SUP CMT
2-19	ZG402895	CS ANGLE ADJUST SPRING
2-20	MV357208	BALL200STL
2-21	MH314340	HEAD HOLDER
2-22	ZG312946	SP T1-3.2/0.29-16.0 T1-062
2-23	ZW328682	PW31×070×050PBR
2-24	ZW270088	RING E 190SUP CMT

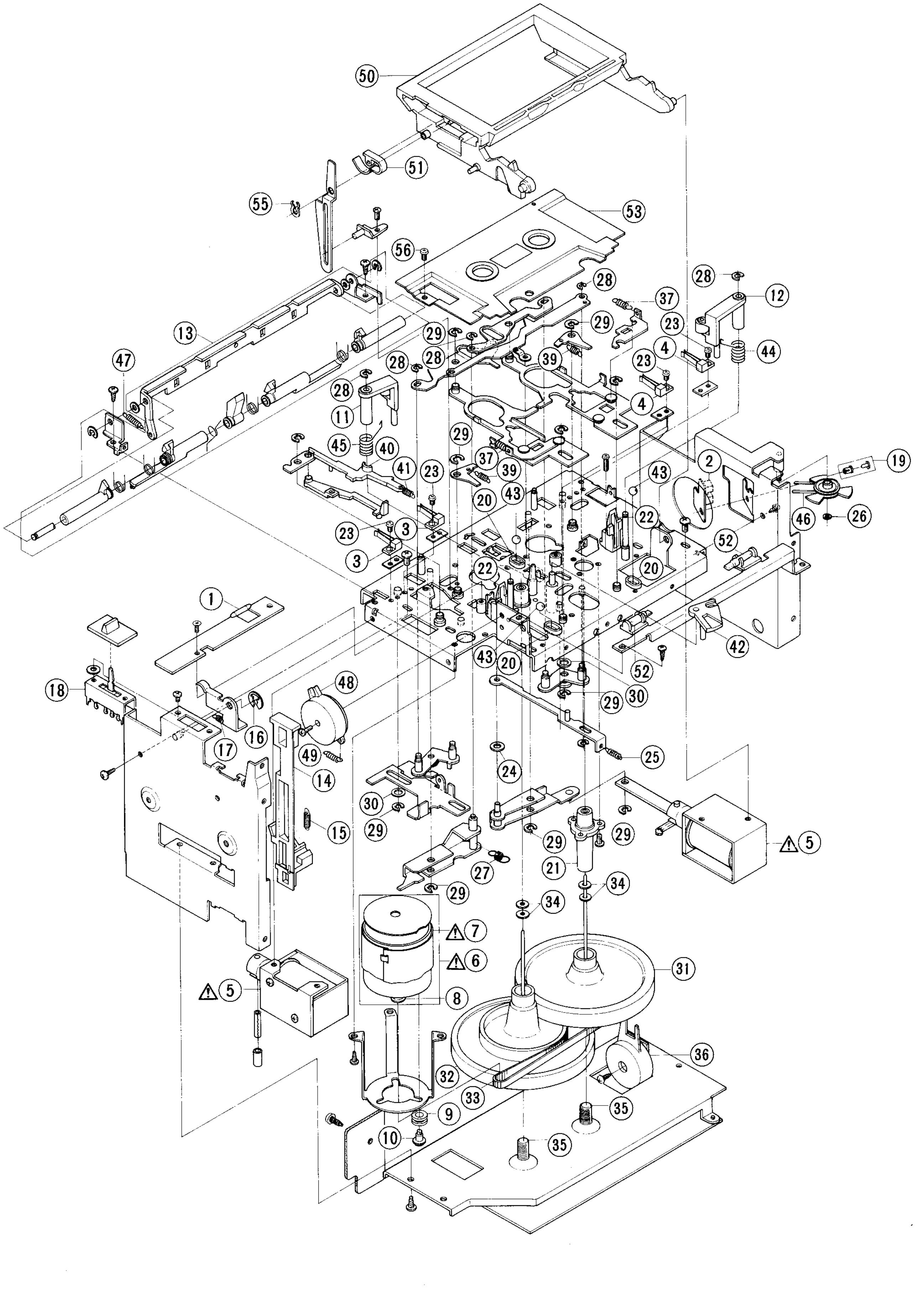
REEL TABLE BLOCK



3. REEL TABLE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	REEL MOTOR BLOCK	
3-1	BMT2016A320A	⚠ REEL MOTOR BLK (W/PULLEY) GX-F35
3-2	BM328441	⚠ MOTOR RF-510T (12620)
3-3	MR328360	REEL MOTOR PULLEY
	PLUNGER BLOCK	
3-4	EP318645	⚠ SOLENOID 1240PLT 27V (SL901)
	REEL TABLE BLOCK	
3-5	ZW516993	N30STL CMT 1
3-6	ZS430413	CTS26×04STL CMT
3-7	ZG314747	SP TORSION IDLER
3-8	ZW270088	RING E 190SUP CMT
3-9	BI312117	REW IDLER ASSY
3-10	TC328365	BT DRUM
3-11	ZG328366	BT SPRING
3-12	ZG330049	SP PUSH BACK TENSION
3-13	BR328424	TAKE-UP REEL TABLE ASSY
3-14	ZW330073	PW21×040×020
3-15	MT305793	REEL CAP
3-16	MB282104	BRAKE RUBBER
3-17	ZG321534	SP T2-3.2/0.29-12.5 T2-060
3-18	BZT2022A260A	DAMPER (C) ASSY CS-F33R
3-19	BZT2016A330A	DAMPER (B) ASSY GX-F35
3-20	ZS479474	PAN26×05STL CMT
3-21	BI312118	TAKE UP IDLER ASSY
3-22	ZG314876	SP TORSION IDLER CLAMP (A)
3-23	ZG314749	SP TORSION IDLER CLAMP (B)
3-24	ZS417137	BID30×04STL CMT

MECHA FRAME BLOCK



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4. MECHA FRAME BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	LAMP P.C BOARD BLOCK	
4-1	EL317599	PL H LEAD 6.3V 100mA (IN1)
	DETECTION P.C BOARD BLOCK	
4-2	ET311977	PHOTO SENSOR SPI-201 (PH1)
	SW LEAF (A), (D) BLOCK	
4-3	ES330521	SW LEAF BSW-47AB 01-1 NC (SW902, 904)
	SW LEAF (B), (C) BLOCK	
4-4	ES330522	SW LEAF BSW-47AC 01-1 NC (SW903, 905)
	PLUNGER ASSY	
4-5	EP318644	⚠ SOLENOID 1240PLT 27V (SL902, 903)
	MOTOR BLOCK	
4-6	BMT2022A080A	⚠ MOTOR (PULLEY) BLK CS-F33R
4-7	BM314843	⚠ MOTOR EG-510ED-2F
4-8	MR328479	MOTOR PULLEY
4-9	MB282778	RUBBER BUSH
4-10	ZS321338	MOTOR SCREW
	PINCH ROLLER (L) BLOCK	
4-11	TCT2010D090A	PINCH ROLLER (L) BLK CS-M40R
	PINCH ROLLER (R) BLOCK	
4-12	TCT2010D100A	PINCH ROLLER (R) BLK CS-M40R
	LEVER EJECT BLOCK	
4-13	BZT2023A310A	LEVER EJECT BLK GX-F66R
	CHASSIS (L) BLOCK	
4-14	ML314151	LEVER JOINT
4-15	ZG318204	SP T2-3.2/0.29-16 T2-062
4-16	ZW270101	RING E300SUP CMT
4-17	ZG312944	SP T1-3.2/0.29-12.5 T1-060
	SW SLIDE BLOCK	
4-18	ES330463	SW SLIDE 00230593 2-02-03S (SW901)
	MECHA FRAME BLOCK	
4-19	ZW312121	RV NYL26x042 BL
4-20	MS302191	BALL GUIDE
4-21	MV328322	MAIN CASE
4-22	TC314156	HOLDER CASSETTE
4-23	ZS460438	BID20x03STL CMT
4-24	ZW438928	PW31x048x020PBR
4-25	ZG312942	SP T1-3.2/0.29-10.0 T1-058
4-26	ZW321437	PUSH WASHER
4-27	ZG336651	SP PULL PLAY LEVER (A)
4-28	ZW270088	RING E 190SUP CMT
4-29	ZW270101	RING E300SUP CMT
4-30	ZW649991	PW41x070x030PBR
4-31	MIB601782	FLYWHEEL (A) PART
4-32	MIB601783	FLYWHEEL (B) PART
4-33	MB314317	BELT CAPSTAN
4-34	ZW694798	PW31x070x020TFL
4-35	ZS302318	HOLD SCREW
4-36	BZT2016A330A	DAMPER (B) ASSY GX-F35
4-37	ZG318083	SP PULL CLAMP
4-38x	HZ314069	SP PLATE HEAD BASE
4-39	ZG310531	SP T1-4.0/0.4-12.5 T1-109
4-40	ML314337	LEVER EJECT CHECK
4-41	ZG312921	SP T1-3.2/0.2-9.0 T1-038
4-42	MR314339	CAM HEAD CHANGE
4-43	MV269965	BALL 400STL
4-44	ZG310694	PINCH ROLLER RETURN SPRING (A)
4-45	ZG310695	PINCH ROLLER RETURN SPRING (B)
4-46	MB314722	BELT COUNTER
4-47	ZG336064	SP PULL EJECT
4-48	BZT2021A200A	DAMPER (A) BLK CS-F330

REF. NO.	PARTS NO.	DESCRIPTION
4-49	ZG324329	SP T2-3.2/0.29-11.2 T2-059
4-50	TC-328351	CASSETTE HOLDER (BL)
4-51	ZG321487	MOLD SPRING
4-52	EL309960	PL CORD 24.0V 50mA 450/450
4-53	SZB314713A	LID DECORATION PART
4-54x	SZB314713B	LID DECORATION (BL) PART
4-55	ZW332843	RING GRIP 380STL ACP
4-56	ZS432843	PAN26x04STL CMT

When ordering parts, please quote Parts Number, Description and Model Number.

5. PRE AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1	BAT2040A080A	PC PRE AMP BLK GX-F66RC(U) (U, J, C, A)
5-2	BAT2040A080B	PC PRE AMP BLK GX-F66RC(E) (E, B, S, V)
5-3	BAT2040A080C	PC PRE AMP BLK GX-F66RCP(U) (U, J, C, A)
5-4	BAT2040A080D	PC PRE AMP BLK GX-F66RCP(E) (E, B, S, V)
5-IC2	EI311959	IC HA12028
5-TR1	ET308954	TR 2SC1844 E, F
5-TR2	ET603257	⚠ TR 2SC1312S G, H
5-TR3	ET639437	TR 2SC945L Q, P
5-TR4,5	ET328868	TR 2SD1012-V G, H
5-TR6	ET308954	TR 2SC1844 E, F (E, B, S, V)
5-TR7	ET639437	TR 2SC945L Q, P
5-TR8,9	ET554657	TR 2SA733A P, Q
5-TR10	ET639437	TR 2SC945L Q, P
5-TR12,13	ET639437	TR 2SC945L Q, P
5-TR14	ET309353	⚠ TR 2SC2274 E, F
5-TR15,16	ET639437	TR 2SC945L Q, P
5-TR17,18	ET309353	⚠ TR 2SC2274 E, F
5-TR19to27	ET639437	TR 2SC945L Q, P
5-TR28	ET200506	TR 2SC2603 F
5-TR29	ET332245	TR 2SD794 P
5-TR30	ET639437	TR 2SC945L Q, P
5-TR31	ET328868	TR 2SD1012-V G, H
5-TR32,33	ET639437	TR 2SC945L Q, P
5-TR34	ET539133	TR 2SA733A P
5-TR35	ET310920	⚠ TR 2SC1846 R, S
5-TR36to39	ET639437	TR 2SC945L Q, P
5-TR40	ET666404	⚠ TR 2SD571 K,L
5-TR41	ET328868	TR 2SD1012-V G, H
5-TR42	ET639437	TR 2SC945L Q,P
5-D2	ED316143	D SILICON H 1S2473HS F10
5-D3 to 7	ED560913	D SILICON V 1S2473VE
5-D8	ED305704	D ZENER H HZ4 B2
5-D9	ED316143	D SILICON H 1S2473HS F10
5-D10to14	ED560913	D SILICON V 1S2473VE
5-D15	ED306109	D SILICON W03B 100/1.0A
5-D16	ED560913	D SILICON V 1S2473VE
5-D17	ED306014	D ZENER H HZ9 C3
5-D18,19	ED322982	D GERMA V 1S188FM-1-LR F07
5-D20	ED560913	D SILICON V 1S2473VE
5-D21	ED331626	D ZENER H HZ3 B2
5-D22	ED560913	D SILICON V 1S2473VE
5-VC1,2	EC315346	C S-FIX H ECV-1ZW50×32E 5.0-55
5-J1	EJ308986	PIN J 1784P1782 P 4P (U, J, C, A)
5-J1	EJ337381	JACK PLATE UD-0096 (E,B,S,V)
5-J2	EJ337622	PHONE J THROW HLJ0345-210 3P 2×3P
5-J2	EJ321328	PHONE J HLJ0345-010 2×3P (P)
5-J3	EJ337623	PHONE J 3P HLJ0315-023 6.3
5-J3	EJ330545	PHONE J 3P HLJ0315-020 6.3 (P)
5-SW1	ES328415	SW SOLENOID SWE018401 18V 04-2S
5-SW2	ES311975	SW SOLENOID R8150050 27V 10-2W
5-SW3	ES283072	SW SLIDE SSC22LP 2-02-02N (E, B, S, V)
5-VR1	EV315542	R S-FIX H D8 3P 103
5-VR2,3	EV315541	R S-FIX H D8 3P 503
5-VR4	EV315753	R S-FIX H D8 3P 203
5-VR5	EV316442	R S-FIX H D8 3P 102
5-VR6	EV315540	R S-FIX H D8 3P 502
5-VR7	EV313538	VR ROTARY 16P20×1B B103
5-RL1	EP328529	RELAY LEAD LAB2NS 2NO 12V
5-VL1	EO321336	COIL VARI 1 FE002 10mH
5-L1	EO669273	COIL FIX 2 FL5R200 18μH
5-T1	EO331625	COIL OSC 1 0365-034 100KHz
5-FL3,4	EO315758	COIL TUN 1 100S-431 100KHz
5-R34	ER488024	⚠ R OMF H FS 1W 330J
5-R35	ER330977	⚠ R OMF H FS 2W 680J
5-C1	EC314990	C STY V SNP CQFS 101J 50DC
5-C3	EC314995	C STY V SNP CQFS 331J 50DC
5-C6	EC314995	C STY V SNP CQFS 331J 50 DC
5-C35	EC331631	C STY V SNP CQFS 821J 50DC
5-C48	EC313265	C STY V 152J 500DC
5-C60	EC321340	C PP V APS 8201G 100DC
5-C63	EC314990	C STY V SNP CQFS 101J 50DC
5-5	ZW263946	RV NYL40×050

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BAT2040A050A	PC SYSCON (2) BLK GX-F66RC
6-IC1	EI336801	IC MB8841-564M
6-IC2	EI331658	IC MB8841-461M
6-IC3,4	EI331659	IC M54528P
6-IC5	EI319555	IC μPD4049C
6-IC6	EI331660	IC SN7417N
6-IC7	EI331661	IC SN7405N
6-TR1	ET324134	TR 2SA984K E,F
6-TR2	ET554657	TR 2SA733A P,Q
6-TR3to6	ET324134	TR 2SA984K E,F
6-TR7to9	ET554657	TR 2SA733A P,Q
6-TR10to12	ET635231	TR 2SC536NP F,G
6-TR13to36	ET554657	TR 2SA733A P,Q
6-D1 to 5	ED560913	D SILICON V 1S2473VE
6-D6	ED308952	D GERMA V 1K34A-LR F07
6-D7 to 10	ED560913	D SILICON V 1S2473VE
6-D11 to14	ED308952	D GERMA V 1K34A-LR F07
6-C6	EC363688	C MC V FM 101K 500DC
6-C7	EC285513	C MC V FM 220K 500DC
6-J1	EJ324276	DIN J TCS4680-01-111 P 8P

7. POWER SUPPLY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
7-1	BAT2023A070A	PC POWER BLK GX-F66R(U)
7-2	BAT2023A070B	PC POWER BLK GX-F66R(J)
7-3	BAT2023A070C	PC POWER BLK GX-F66R(C)
7-4	BAT2023A070D	PC POWER BLK GX-F66R(A)
7-5	BAT2023A070E	PC POWER BLK GX-F66R(E)
7-6	BAT2023A070F	PC POWER BLK GX-F66R(B)
7-7	BAT2023A070G	PC POWER BLK GX-F66R(V)
7-8	BAT2023A070H	PC POWER BLK GX-F66R(S)
7-TR1	ET307349	⚠ TR 2SD794 P,Q
7-TR2	ET639437	⚠ TR 2SC945L Q,P
7-TR3	ET375603	⚠ TR 2SC1061 B,C
7-TR4	ET639437	⚠ TR 2SC945L Q,P
7-TR5	ET375603	⚠ TR 2SC1061 B,C
7-TR6	ET639437	⚠ TR 2SC945L Q,P
7-TR7	ET307349	⚠ TR 2SD794 P,Q
7-TR8	ET639437	⚠ TR 2SC945L Q,P
7-D1	ED319463	⚠ D SILICON 4B4B41 100/4.0A
7-D2	ED324013	D ZENER H HZ20 2
7-D3	ED319463	⚠ D SILICON 4B4B41 100/4.0A
7-D4	ED319167	D ZENER H HZ6 C3
7-D5	ED306109	⚠ D SILICON W03B 100/1.0A
7-D6	ED331667	D ZENER H HZ7 A1
7-J1	EJ310567	⚠ SOCKET INLET 0378PC-GS E 2P (B, S, V)
7-SW1	ES312234	⚠ SW PUSH SDL-1P 01-1 E (U, E, B, S, V)
7-SW1	ES312235	⚠ SW PUSH SDL-1P 01-1 J(J)
7-SW1	ES312238	⚠ SW PUSH SDL-1P 01-1 UC (C,A)
7-VS1	MZ283140	⚠ SOCKET SELECTOR X-17238 6P (U)
7-C1	EC320548	⚠ C CE V F 103Z 250AC (U, J, A)
7-C1	EC314688	⚠ C CE V FZ 103P 125AC(C)
7-C1	EC330307	⚠ C MMY V ECQUF 472M250AC (E, S, B, V)
7-C2	EC324023	C EC V CUT USM 222M 350DC

8. DRIVE P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
8-1	BAT2023A300A	PC DRIVE BLK GX-F66R
8-IC1	EI302681	IC SN7404N
8-IC2	EI201940	IC NJM4558S
8-TR1	ET307349	⚠ TR 2SD794 P,Q
8-TR2	ET324134	⚠ TR 2SA984K E, F
8-TR3,4	ET200985	TR 2SC2603 F,G
8-TR5	ET309353	TR 2SC2274 E,F
8-TR6	ET307349	⚠ TR 2SD794 P,Q
8-TR7	ET324134	⚠ TR 2SA984K E, F
8-TR8,9	ET200985	TR 2SC2603 F,G
8-TR10	ET309353	TR 2SC2274 E,F
8-TR11	ET324134	⚠ TR 2SA984K E, F
8-TR12,13	ET200985	TR 2SC2603 F,G
8-TR14	ET309353	TR 2SC2274 E,F
8-TR15	ET328868	TR 2SD1012-V G,H
8-TR16,17	ET328438	TR 2SB808-V F, G
8-TR18	ET328868	TR 2SD1012-V G,H
8-TR19to26	ET200985	⚠ TR 2SC2603 F,G
8-TR28to33	ET200985	TR 2SC2603 F,G
8-TR36	ET328868	TR 2SD1012-V G,H
8-TR37	ET200985	TR 2SC2603 F,G
8-D1	ED328486	D ZENER H HZ15 3
8-D2	ED560913	D SILICON V 1S2473VE
8-D3,4	ED306109	D SILICON W03B 100/1.0A
8-D5	ED560913	D SILICON V 1S2473VE
8-D6,7	ED306109	D SILICON W03B 100/1.0A
8-D8	ED560913	D SILICON V 1S2473VE
8-D9 to 11	ED306109	D SILICON W03B 100/1.0A
8-D12 to 17	ED560913	D SILICON V 1S2473VE
8-D18	ED306109	D SILICON W03B 100/1.0A
8-D19	ED316143	D SILICON H 1S2473HS F10
8-D20	ED560913	D SILICON V 1S2473VE
8-VR1	EV522652	R S-FIX V V8K1-1 3P 105
8-C14	EC314992	C STY V F05 CQF09 681J 50DC
8-C19	EC307793	C EC V F05 NP SM 220M 10DC

9. DOLBY (C) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
9-1	BAT2040A070A	PC DOLBY(C) BLK GX-F66RC
9-IC1	EI336737	IC HA11226
9-IC2	EI336761	IC LA6458S
9-TR1 to 12	ET639437	TR 2SC945L Q,P
9-TR13	ET336735	TR 2SA733(A) P,K
9-D1	ED331227	D GERMA V 1K34A-UF SNP
9-D2	ED624903	D SILICON H 1S2473
9-D3	ED331227	D GERMA V 1K34A-UF SNP
9-D4,5	ED624903	D SILICON H 1S2473
9-D6	ED331227	D GERMA V 1K34A-UF SNP
9-SW1	ES332448	SW LEVER 01030123 2-10-03N
9-SW2	ES336779	SW LEVER 2-02-02S
9-SW3	ES328530	SW SOLENOID SWE018404 18V 04-2N
9-VR1	EV202110	VR ROTARY 16P11x0S A503 A503
9-VR2	EV315540	R S-FIX H D8 3P 502
9-VR3	EV322411	R S-FIX H D8 3P 202
9-VR4,5	EV315542	R S-FIX H D8 3P 103
9-FL1,2	EO336738	COIL TUN 1 102AK-004 19.8 KHz
9-FL3	ER328491	FILTER DB D07-003K 100KHz
9-FL4	ER328490	FILTER DB D07-001K 19KHz
9-C7	EC306980	C STY V F05 500 221J 50DC
9-C13	EC314990	C STY V SNP CQFS 101J 50DC

10. KEYBOARD (2) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	KEYBOARD (2) P.C BOARD BLOCK	
10-1	BAT2040A060A	PC KEYBOARD (2) BLK GX-F66RC
10-IN1	EM331669	IND LE SL-1003 CHARACTER
10-D1 to 3	ED308953	D GERMA H 1K34A-LH SNP
10-D4 to 7	ED560913	D SILICON V 1S2473VE
10-SW1,2	ES324677	SW TACT KEC11904
10-SW3to14	ES323367	SW TACT KEC10001
10-SW15 to18	ES324677	SW TACT KEC11904
10-SW20to24	ES323367	SW TACT KEC10001
	MEMORY P.C BOARD BLOCK	
10-SW1	ES201527	SW SLIDE SSS212 1-01-02N

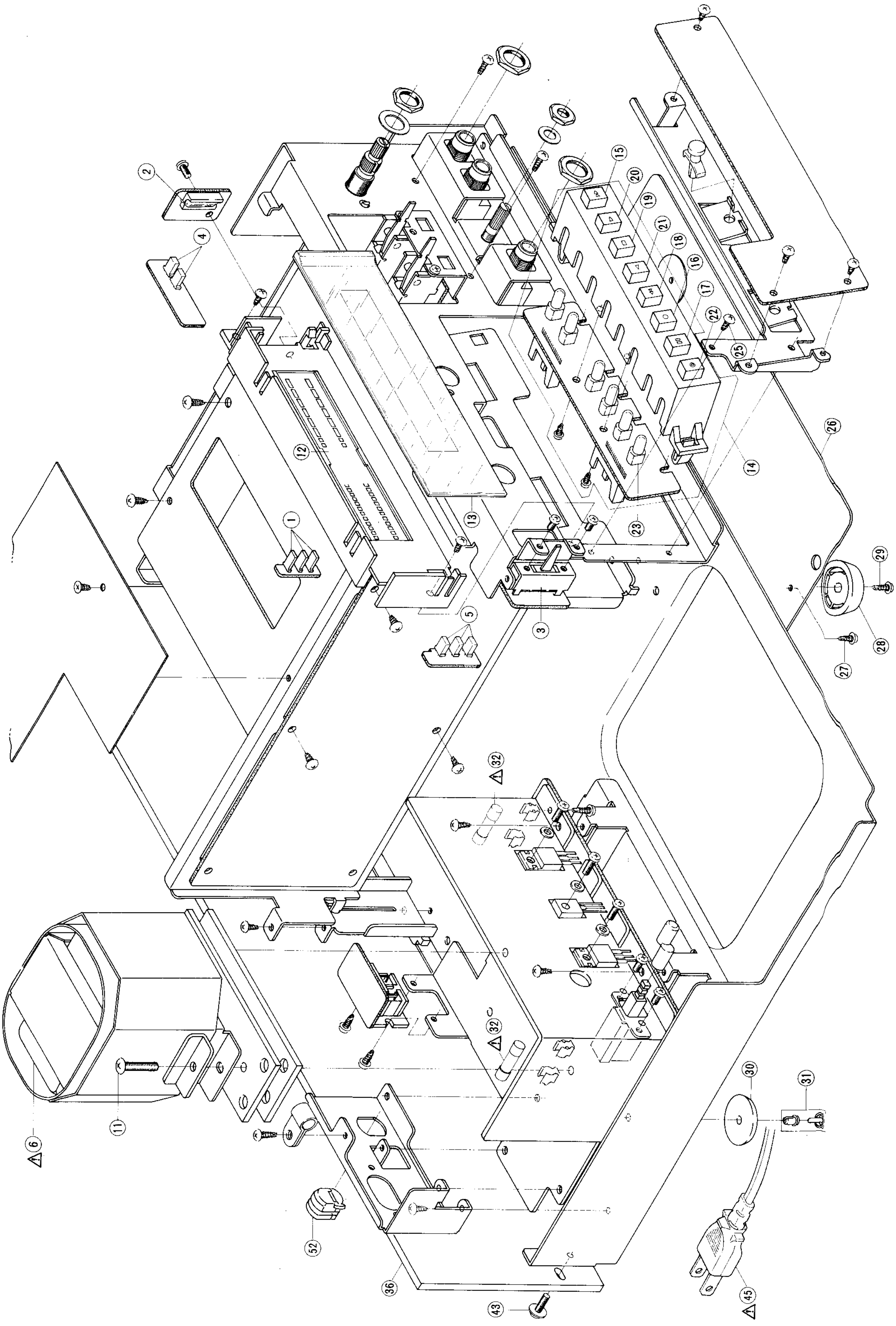
11. LD P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
11-TR1,2	ET200985	TR 2SC2603 F,G
11-TR3	ET200558	TR 2SA1115 E,F

12. FILTER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
12-L1,2	EO669273	COIL FIX 2 FL5R200 18μH

ASSEMBLY BLOCK



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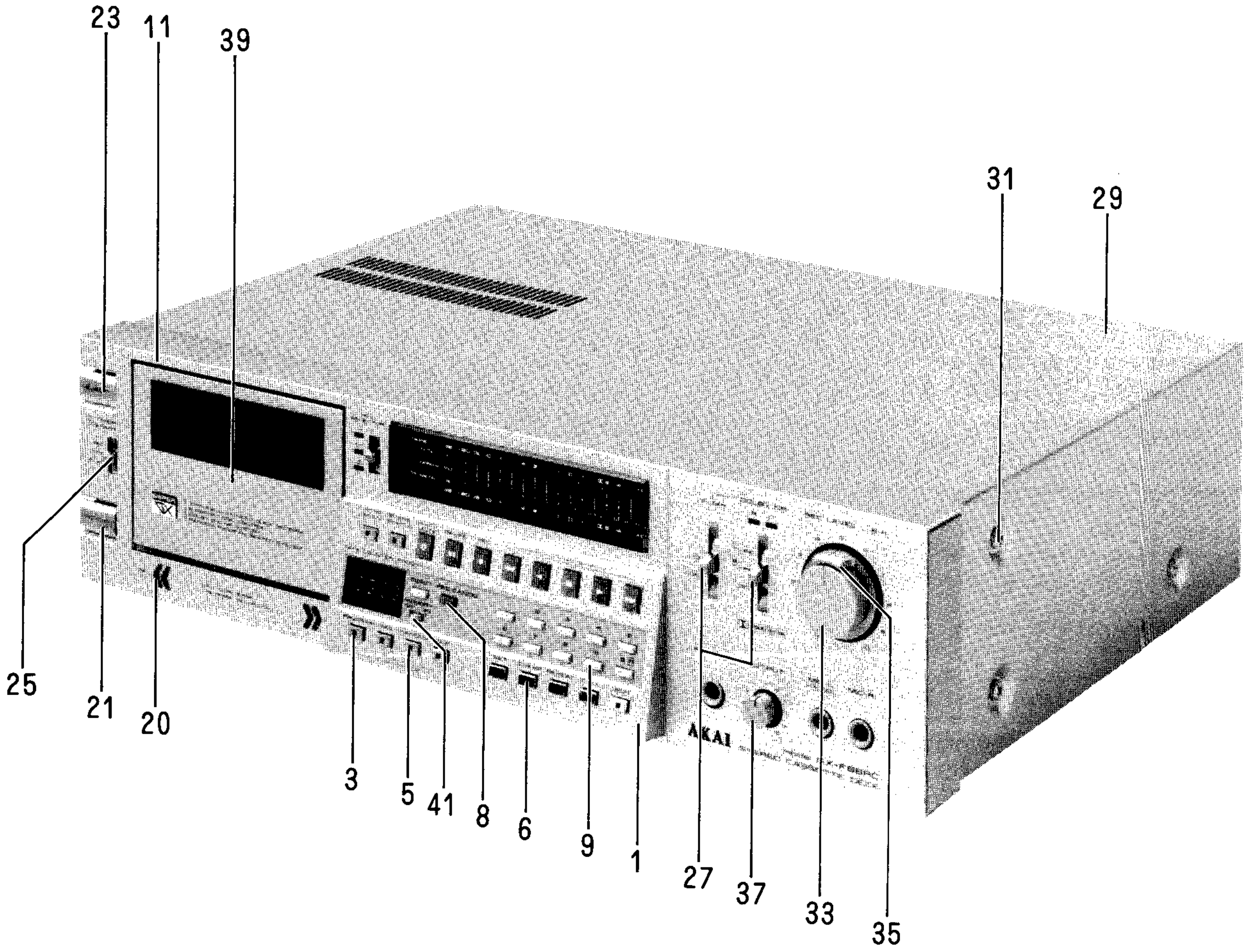
13. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	TAPE LED P.C BOARD BLOCK	
13-1	ED322773	D LED SLP-255D-01 GRN (D1,2,3)
	LAMP METER P.C BOARD BLOCK	
13-2	EL304025	PL H LEAD 10V 110mA (IN1)
	SLIDE P.C BOARD BLOCK	
13-3	ES337322	SW SLIDE 00230699 2-02-03N (SW1)
	DOLBY LED P.C BOARD BLOCK	
13-4	ED322773	D LED SLP-255D-01 GRN (D1,2)
	REVERSE P.C BOARD BLOCK	
13-5	ED322773	D LED SLP-255D-01 GRN (D1,2,3)
	POWER SUPPLY BLOCK	
13-6	BT331662	⚠ TRANS POWER T2023-U
13-7x	BT331663	⚠ TRANS POWER T2023-J
13-8x	BT331665	⚠ TRANS POWER T2023-C,A (C,A,V)
13-9x	BT331664	⚠ TRANS POWER T2023-E
13-10x	BT331666	⚠ TRANS POWER T2023-B,S
13-11	ZS201033	ST PAN40x16STL CMT
	HOLDER METER BLOCK	
13-12	ED331263	IND LE LT-1016 GRAPH (IN901)
	ASSEMBLY BLOCK	
13-13	SZ331956	MASK METER
13-14	ES331670	SW OPERATION F66R 8P L
13-15	SK780000	KNOB OPERATION (FF)
13-16	SK780001	KNOB OPERATION (REC)
13-17	SK780002	KNOB OPERATION (PAUSE)
13-18	SK780004	KNOB OPERATION (REW)
13-19	SK780005	KNOB OPERATION (STOP)
13-20	SK780006	KNOB OPERATION (PLAY)
13-21	SK780007	KNOB OPERATION (REVERSE)
13-22	SK780008	KNOB OPERATION (REC MUTE)
13-23	EL300186	PL LEAD 8V 60mA
13-24x	TC780009	RUBBER SHEET SW ASSIST J-P5348-03
13-25	ZS463353	T2BR30x08STL BNI
13-26	SP331961	COVER BOTTOM PLATE
13-27	ZS325495	T2BR30x06STL CMT
13-28	SA202118	FOOT
13-29	ZS490228	T2BID30x08STL CMT
13-30	SA313811	RUBBER FOOT
13-31	ZW231030	RV NYL30x045 BL
13-32	EF306950	⚠ FUSE TSC A 250V 2A (F1,2) (U,J)
13-33x	EF306954	⚠ FUSE TSC 125V 2A (F1,2) (C,A)
13-34x	EF601301	⚠ FUSE SEMKO T 250V 2A (F1,2) (E,B,S,V)
13-35x	EF593706	⚠ FUSE SEMKO T 250V 0.50A (F3) (B)
13-36	SP332004R	PANEL REAR BOARD GX-F66RC(U)AS
13-37x	SP332004V	PANEL REAR BOARD GX-F66RC(J)AS
13-38x	SP332004T	PANEL REAR BOARD GX-F66RC(C)AS
13-39x	SP332004U	PANEL REAR BOARD GX-F66RC(A)AS
13-40x	SP332004S	PANEL REAR BOARD GX-F66RC(E)AS
13-41x	SP332004Q	PANEL REAR BOARD GX-F66RC(B,S) AS
13-42x	SP332004W	PANEL REAR BOARD GX-F66RC(V) AS
13-43	ZS332007	T2PAN30x10 STL CMT C080
13-44x	ZW305013	RV POP32 (A)
13-45	EW306428	⚠ AC CORD 2 CORES KP-205A,VFF J (U)
13-46x	EW306427	⚠ AC CORD 2 CORES KP-211, VFF J (J)
13-47x	EW305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (C,A)
13-48x	EW201796	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E)
13-49x	EW322400	⚠ AC CORD 2 CORES GTBS-2F/KS-15 B (B)
13-50x	EW322401	⚠ AC CORD 2 CORES KP-560/S-15 S (S)
13-51x	EW315767	⚠ AC CORD 2 CORES KP-419C/KS-15 E (V)
13-52	SZ631945	STRAIN RELIEF SR-4N-4 (U, J, C, A, E)

FINAL ASSEMBLY BLOCK



14. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	SUB PANEL BLOCK	
14-1	BDT2040A030A	PANEL SUB BLK GX-F66RC
14-2x	BDT2040A030B	PANEL SUB BLK GX-F66RC-P
14-3	SK331981A	KNOB PUSH (A)
14-4x	SK331981C	KNOB PUSH (A)-P
14-5	SK331982	KNOB INDICATOR
14-6	SK331983A	KNOB PUSH (B)
14-7x	SK331983D	KNOB PUSH (B)-P
14-8	SK331984A	KNOB PUSH (C)-RED
14-9	SK331984C	KNOB PUSH (C)-GRAY
14-10x	SK331984D	KNOB PUSH (C)-P
	FRONT PANEL BLOCK	
14-11	BDB331974L	PANEL FRONT GX-F66RC(MONO) PART (U, J, C, A)
14-12x	BDB331974J	PANEL FRONT GX-F66RC PART (E, B, S, V)
14-13x	BDB331974M	PANEL FRONT GX-F66RC (MONO)-P PART (U, J, C, A)
14-14x	BDB331974K	PANEL FRONT GX-F66RC-P PART (E, B, S, V)
14-15x	TC331975A	LID ESCUTCHEON
14-16x	TC331975C	LID ESCUTCHEON-P
14-17x	SE331976A	ESCUTCHEON SIDE
14-18x	SE331976C	ESCUTCHEON SIDE-P
14-19x	ZS332008	PT PAN30×06STL CMT
14-20	SZ325789	DIRECTION LENS
14-21	SK317468A	KNOB PUSH (A)
14-22x	SK317468E	KNOB PUSH (A)-P
14-23	SK317468C	KNOB PUSH (B)
14-24x	SK317468F	KNOB PUSH (B)-P
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14-25	SK328391	SLIDE KNOB
14-26x	SK336304	SLIDE KNOB-P
14-27	SK329033	LEVER KNOB (A)
14-28x	SK336307	LEVER KNOB-P
14-29	SP332003D	COVER UPPER (C)
14-30x	SP332003E	COVER UPPER (C)-P
14-31	ZS341963	XST BID40×06STL NI3
14-32x	ZS341964	XST BID40×06 STL BNI
14-33	SKB318794	KNOB DOUBLE (UPPER) PART GX-F90
14-34x	SKB604320	KNOB DOUBLE (UPPER) P PART
14-35	SK331998A	KNOB DOUBLE (LOWER)
14-36x	SK331998C	KNOB DOUBLE (LOWER)-P
14-37	SK317537	KNOB (B)
14-38x	SK336305	KNOB (B)-P
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14-40x	BDB332000F	LID PANEL (C)-P PART
14-41	SK331985A	KNOB MEMORY
14-42x	SK331985C	KNOB MEMORY-P
14-43x	BC330054	CASE WOOD (GX-F66RC-W)
14-44x	SA202118	FOOT (GX-F66RC-W)
14-45x	ZW326042	PW35×070×050STL CMT (GX-F66RC-W)
14-46x	ZS414268	TITRS35×10STL CMT (GX-F66RC-W)
14-47x	ZW381881	PW41×130×100STL CMT (GX-F66RC-W)
14-48x	ZS330057	ST BID40×22STL CMT (GX-F66RC-W)

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BT331664	13-9x
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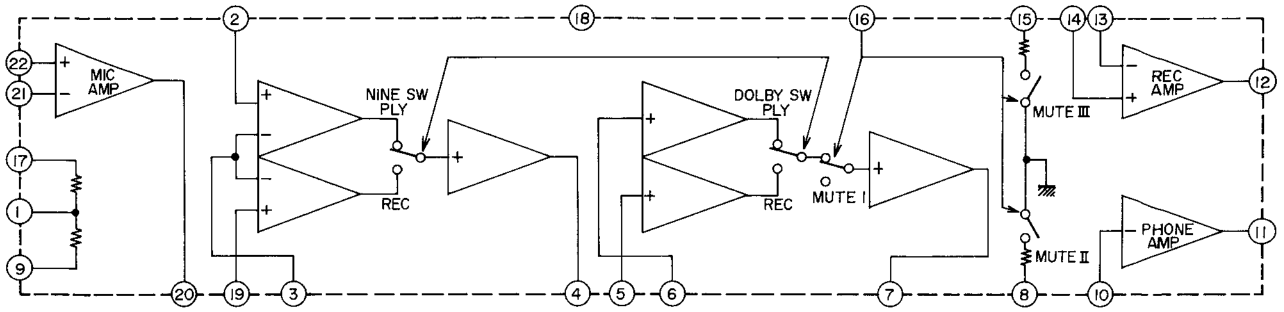
SECTION 3

SCHEMATIC DIAGRAM

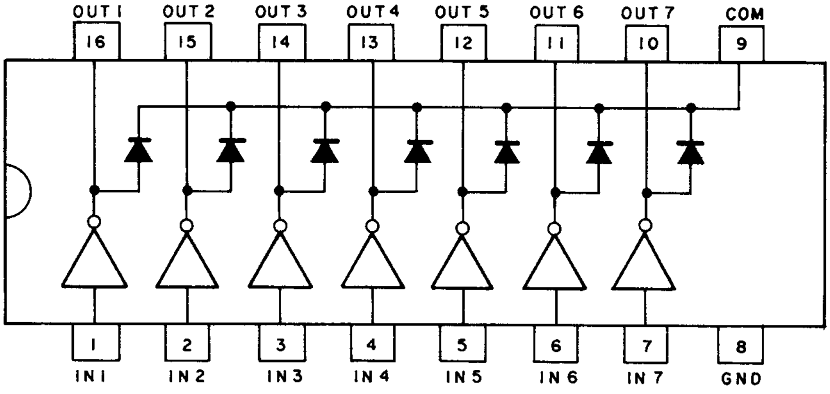
1. SCHEMATIC DIAGRAM OF ICs
2. GX-F66RC No. 2-1 1640216A POWER & SYSCON SCHEMATIC DIAGRAM
3. GX-F66RC No. 2-2 1640217A AMP SCHEMATIC DIAGRAM

HA12028



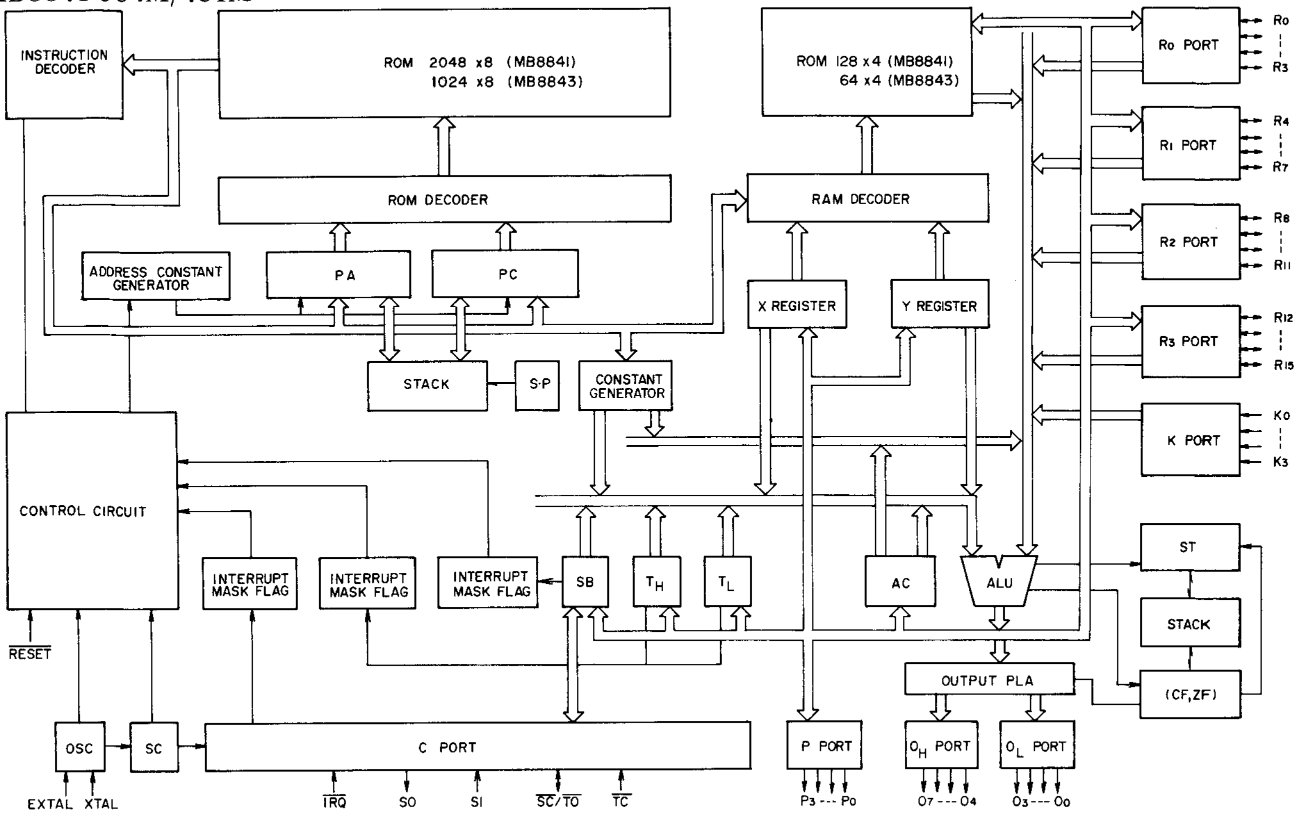
22
21
17
1
9
MIC AMP
2
18
16
15
14
13
NINE SW PLY
REC
DOLBY SW PLY
REC
MUTE I
MUTE III
MUTE II
REC AMP
PHONE AMP
12
11
20
19
3
4
5
6
7
8
10

M54528P

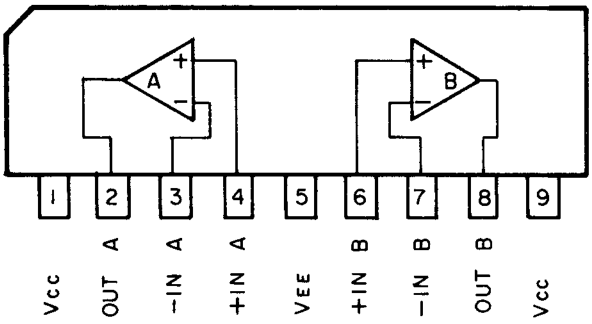


OUT 1
OUT 2
OUT 3
OUT 4
OUT 5
OUT 6
OUT 7
COM
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8
IN 1
IN 2
IN 3
IN 4
IN 5
IN 6
IN 7
GND

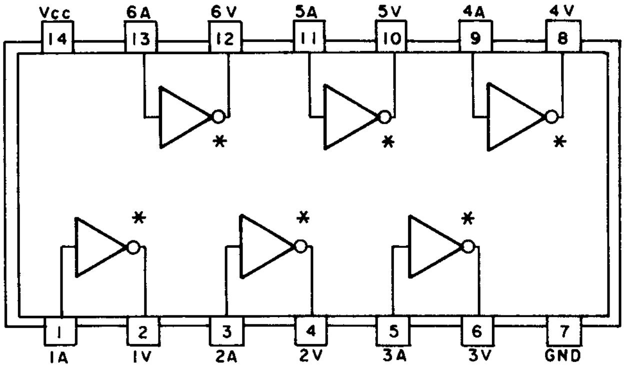
MB8841-564M/461M


INSTRUCTION DECODER
ROM 2048 x8 (MB8841)
1024 x8 (MB8843)
ROM 128 x4 (MB8841)
64 x4 (MB8843)
ROM DECODER
RAM DECODER
ADDRESS CONSTANT GENERATOR
PA
PC
X REGISTER
Y REGISTER
STACK
S·P
CONSTANT GENERATOR
CONTROL CIRCUIT
INTERRUPT MASK FLAG
INTERRUPT MASK FLAG
INTERRUPT MASK FLAG
SB
T_H
T_L
AC
ALU
ST
STACK
(CF,ZF)
OUTPUT PLA
R0 PORT
R0
R3
R1 PORT
R4
R7
R2 PORT
R8
R11
R3 PORT
R12
R15
K PORT
K0
K3
RESET
OSC
SC
C PORT
EXTAL
XTAL
IRQ
SO
SI
SC/TO
TC
P PORT
P3 --- P0
O_H PORT
O7 --- O4
O_L PORT
O3 --- O0

NJM4558S/LA6458S

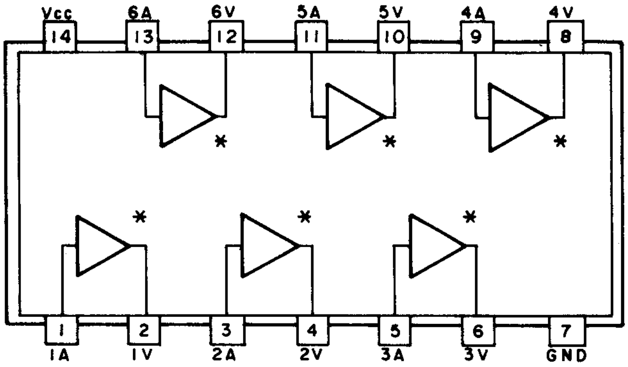

A
+
−
B
+
−
1
2
3
4
5
6
7
8
9
Vcc
OUT A
−IN A
+IN A
VEE
+IN B
−IN B
OUT B
Vcc

SN7405


Vcc
6A
6V
5A
5V
4A
4V
14
13
12
11
10
9
8
*
1
2
3
4
5
6
7
1A
1V
2A
2V
3A
3V
GND

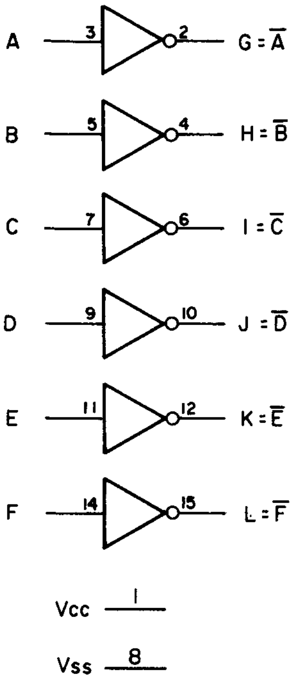
* OPEN COLLECTOR

SN7417N


Vcc
14
6A
13
6V
12
5A
11
5V
10
4A
9
4V
8
*
1
1A
2
1V
3
2A
4
2V
5
3A
6
3V
7
GND

* OPEN COLLECTOR

µPD4049C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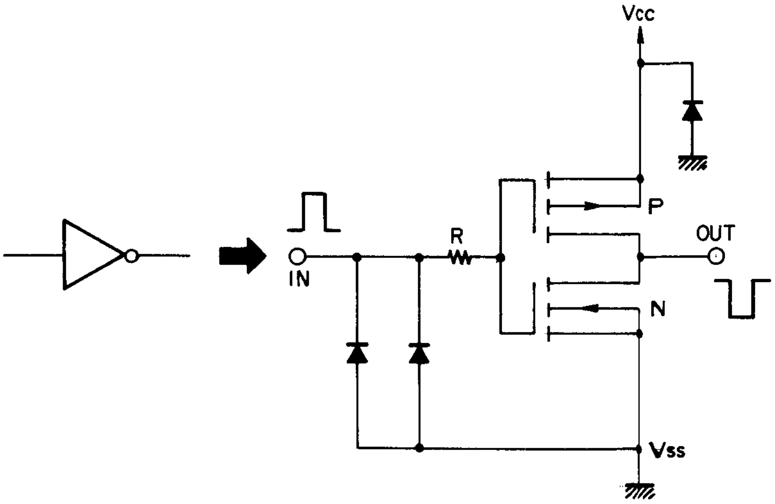
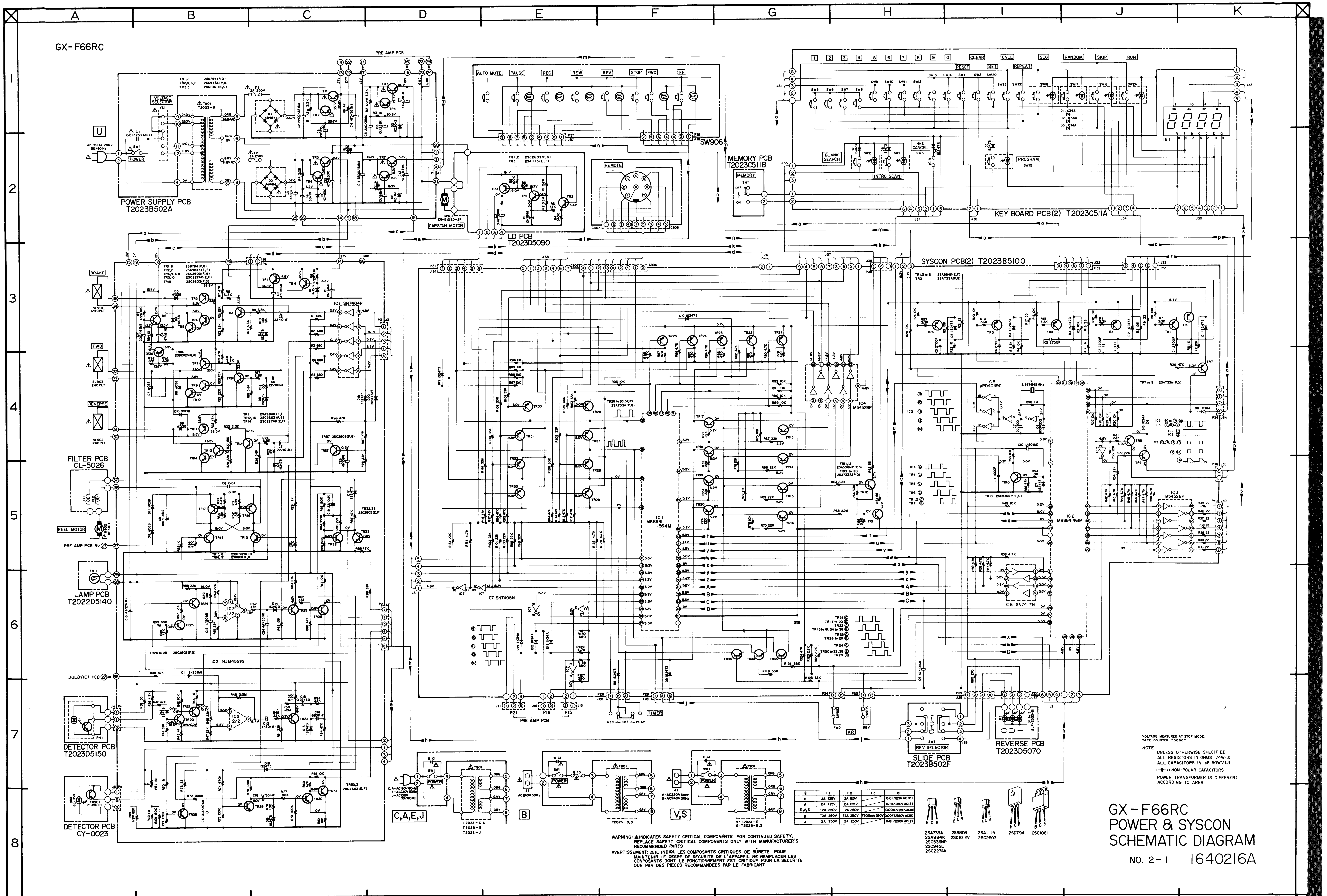
3
2
G = $\overline{A}$
B
5
4
H = $\overline{B}$
C
7
6
I = $\overline{C}$
D
9
10
J = $\overline{D}$
E
11
12
K = $\overline{E}$
F
14
15
L = $\overline{F}$
Vcc
1
Vss
8

NC = 13
NC = 16


Vcc
IN
R
P
OUT
N
Vss


GX-F66RC
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
PRE AMP PCB
U
AC 110 to 240V 50/60 Hz
SW1 POWER
VOLTAGE SELECTOR
T901 T2023-U
POWER SUPPLY PCB T2023B502A
M901 EG-510ED-2F
CAPSTAN MOTOR
AUTO MUTE
PAUSE
REC
REW
REV
STOP
FWD
FF
SW906
MEMORY PCB T2023C511B
MEMORY
TR1,2 2SC2603(F,G)
TR3 2SA1115(E,F)
LD PCB T2023D5090
REMOTE
CLEAR
CALL
SEQ
RANDOM
SKIP
RUN
RESET
SET
REPEAT
BLANK SEARCH
REC CANCEL
INTRO SCAN
PROGRAM
KEY BOARD PCB(2) T2023C511A
SYSCON PCB(2) T2023B5100
BRAKE
FWD
REVERSE
FILTER PCB CL-5026
REEL MOTOR
PRE AMP PCB 8V
LAMP PCB T2022D5140
DOLBY(C) PCB
DETECTOR PCB T2023D5150
DETECTOR PCB CY-0023
IC1 SN7404N
IC1 MB8841-564M
IC2 NJM4558S
IC2 MB88416M
IC3 M5452BP
IC4 M5452BP
IC5 μPD4049C
IC6 SN7417N
IC7 SN7405N
PRE AMP PCB
TIMER
REC — OFF — PLAY
AR
SLIDE PCB T2023B502F
REV SELECTOR
REVERSE PCB T2023D5070
C,A,E,J
B
V,S
C,A-AC120V 60Hz
E-AC220V 50Hz
J-AC100V 50/60Hz
AC 240V 50Hz
V-AC220V 50Hz
S-AC240V 50Hz
T2023-C,A
T2023-E
T2023-J
T2023-B,S
V-T2023-E
S-T2023-B,S
2SA733A
2SA984K
2SC536NP
2SC945L
2SC2274K
2SB808
2SD1012V
2SA1115
2SC2603
2SD794
2SC1061

	F1	F2	F3	C1
C	2A 125V	2A 125V		0.01/125V AC(P)
A	2A 125V	2A 125V		0.01/250V AC(Z)
E,V,S	T2A 250V	T2A 250V		0.0047/250V AC(M)
B	T2A 250V	T2A 250V	T500mA 250V	0.0047/250V AC(M)
J	2A 250V	2A 250V		0.01/250V AC(Z)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

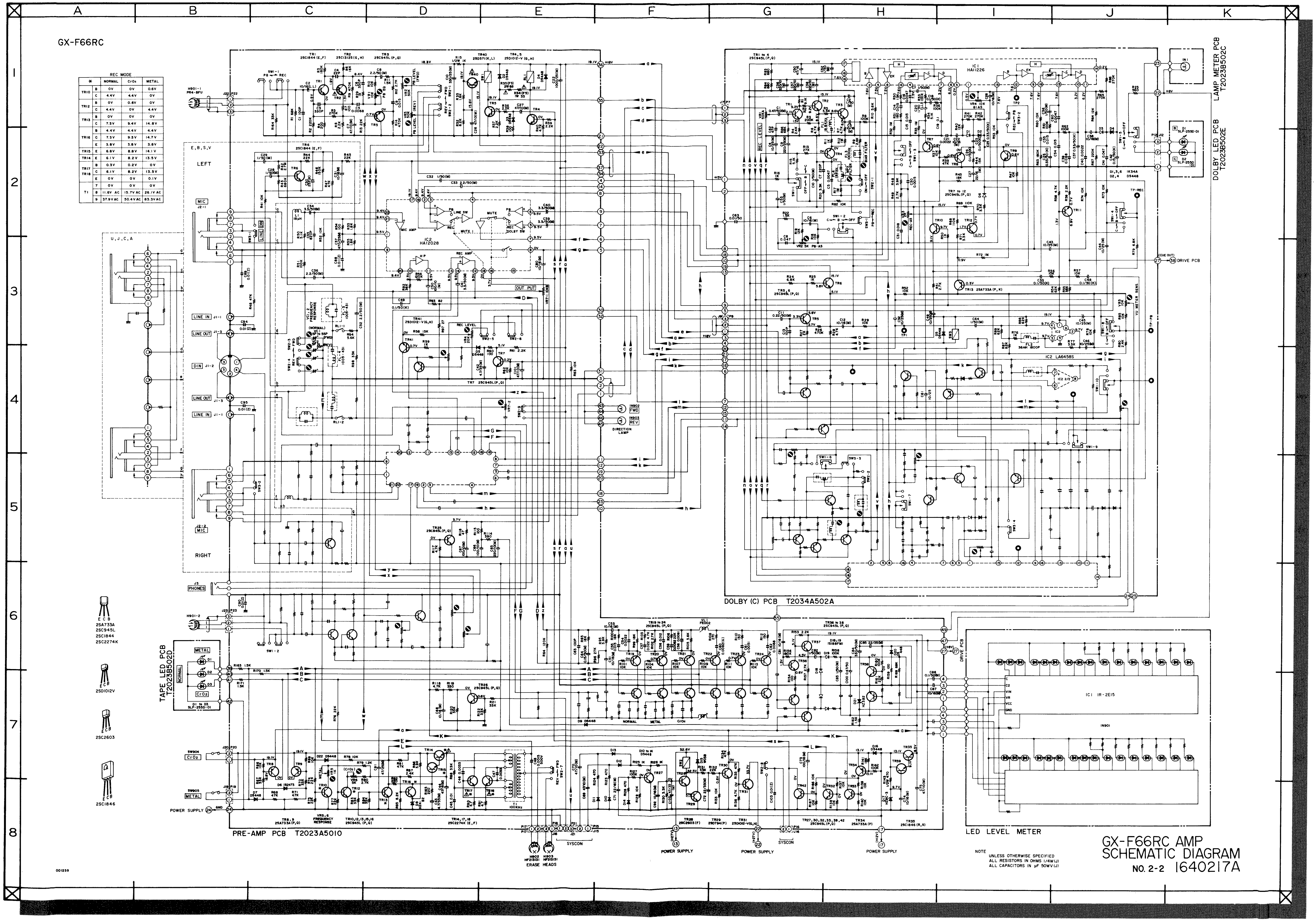
AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

VOLTAGE MEASURED AT STOP MODE.
TAPE COUNTER "0000"

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
(—▮—)=NON-POLAR CAPACITORS
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

GX-F66RC
POWER & SYSCON SCHEMATIC DIAGRAM

NO. 2-1 1640216A


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
E, B, S, V
LEFT
RIGHT
U, J, C, A
MIC
LINE IN
LINE OUT
DIN
PHONES
H901-1 PR4-8FU
H901-2
IC2 HA12028
MIC AMP
REC AMP
OUT PUT
REC LEVEL
DIRECTION LAMP
FWD
REV
IC1 HA11226
IC2 LA6458S
TP-REC
TP-PB
VU METER SENS
CUE OUT
DRIVE PCB
DOLBY (C) PCB T2034A502A
LAMP METER PCB T2023B502C
DOLBY LED PCB T2023B502E
TAPE LED PCB T2023B502D
METAL
NORMAL
CrO2
SW904 CrO2
SW905 METAL
POWER SUPPLY
PRE-AMP PCB T2023A5010
FREQUENCY RESPONSE
ERASE HEADS
SYSCON
IC1 IR-2E15
IN901
LED LEVEL METER
2SA733A
2SC945L
2SC1844
2SC2274K
2SD1012V
2SC2603
2SC1846
001259

GX-F66RC

REC MODE

*		NORMAL	CrO2	METAL
TR10	B	0V	0V	0.6V
	C	4.4V	4.4V	0V
TR12	B	0V	0.6V	0V
	C	4.4V	0V	4.4V
TR13	B	0V	0V	0V
	C	7.3V	9.4V	14.8V
TR16	B	4.4V	4.4V	4.4V
	C	7.3V	9.3V	14.7V
	E	3.8V	3.8V	3.8V
TR15	E	6.8V	8.8V	14.1V
TR14	E	6.1V	8.2V	13.5V
TR17 TR18	B	0.3V	0.2V	0V
	C	6.1V	8.2V	13.5V
	E	0V	0V	0.1V
T1	7	0V	0V	0V
	8	11.6V AC	15.7V AC	26.1V AC
	9	37.9V AC	50.4V AC	83.3V AC

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

GX-F66RC AMP SCHEMATIC DIAGRAM

NO. 2-2 1640217A